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Baltimore, Md., January 23, 1930

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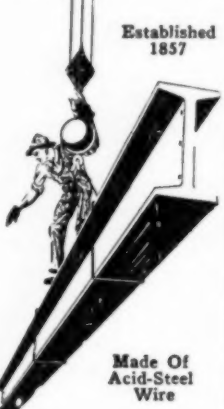
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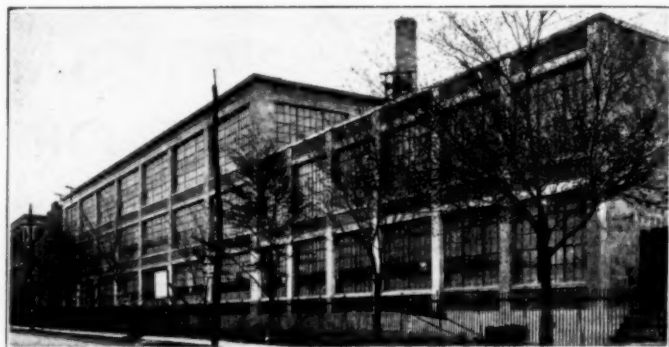
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{ \$6.50 a Year.

Southern Ports Lead Nation in Export Tonnage and Rank Second in Import Tonnage

PRELIMINARY figures issued by the Bureau of Research, United States Shipping Board, on the volume of the country's foreign commerce, show an aggregate of 109,605,000 tons for the fiscal year ending June 30, 1929. Comparing the corresponding period of 1928, the total tonnage at that time being 98,137,000, there was an increase during the last fiscal year of 11,468,000 tons.

The volume of exports for the fiscal year 1929 reached 59,603,000 tons and imports amounted to 50,001,973 tons, a gain of 4,661,000 tons in exports and 6,807,000 tons in imports compared with 1928.

A study of the accompanying tabulation made by the MANUFACTURERS RECORD emphasizes the outstanding position of the Southern states in the country's foreign trade. Great river and seaport developments, which are constantly in-

creasing the efficiency of Southern ports, are enabling the South to attract commerce for shipment abroad. Modernization of port handling equipment by the use of the latest design machinery in reducing cargo handling costs has been a further factor in drawing foreign commerce through Southern ports.

In compiling the total tonnage of foreign trade of the United States by states and geographic divisions, a ready

TOTAL FOREIGN COMMERCE OF PORTS HANDLING OVER 200,000 TONS ANNUALLY.

VOLUME OF IMPORTS AND EXPORTS, BY STATES AND GEOGRAPHIC DIVISIONS.

(Fiscal Year Ending June 30, 1929.)*

States and Geographic Division	Imports		Exports	
	Tons	Rank	Tons	Rank
Maine	603,702	11	122,614	21
Massachusetts	3,360,585	5	382,863	16
New Hampshire	16,410	26	143	27
Rhode Island	384,422	18	493	26
Connecticut	50,554	24
Vermont	642	29
New England States	4,416,315	3	506,113	5
New York	22,012,314	1	14,796,189	1
New Jersey	681	28	12,836	24
Pennsylvania	4,331,665	4	1,910,242	9
Delaware	533,502	14	6,140	25
Middle Atlantic States	26,878,162	1	16,725,407	2
Maryland	4,750,556	3	1,606,424	12
District of Columbia
Virginia	583,837	12	2,481,102	7
North Carolina	218,020	20	24,338	23
South Carolina	464,315	15	163,002	20
Georgia	458,703	16	287,614	17
Florida	744,072	10	1,650,550	11
Alabama	404,686	17	604,953	14
Mississippi	43,298	25	273,890	18
Louisiana	5,000,239	2	5,378,650	5
Texas	1,060,686	8	7,580,620	3
Southern States	13,731,412	2	20,051,143	1
Ohio	572,642	13	5,455,264	4
Indiana	3,286	27	56,730	22
Illinois	266,145	19	174,803	19
Wisconsin	148,426	21	1,741,209	10
Minnesota	69,859	23	584,013	15
Michigan	803,344	9	831,945	13
Middle Western States	1,863,702	5	8,843,964	4
California	1,866,882	6	8,662,253	2
Oregon	111,303	22	1,928,132	8
Washington	1,134,197	7	2,886,402	6
Pacific States	3,112,382	4	13,476,787	3
Total United States	50,001,973	..	59,603,414	..

*Preliminary figures compiled from statistics issued by the Division of Statistics, Bureau of Research, United States Shipping Board.

Port	Tonnage	Rank	Port	Tonnage	Rank
New York	27,888,963	1	Duluth	636,210	28
New Orleans	8,800,232	2	Charleston, S. C.	625,900	29
Buffalo	6,571,000	3	Sodus Point	589,697	30
Baltimore	6,356,980	4	Grays Harbor	586,614	31
Los Angeles	6,309,812	5	Beaumont	554,191	32
Philadelphia	5,613,768	6	Ashtabula	543,449	33
San Francisco	3,772,387	7	Cleveland	536,468	34
Houston	3,684,557	8	Wilmington, Del.	474,281	35
Boston	2,508,971	9	Jacksonville	464,189	36
Norfolk	2,199,216	10	Everett	445,794	37
Galveston	2,128,209	11	Chicago	440,948	38
Toledo	2,023,716	12	Lorain	436,383	39
Portland	1,506,437	13	Providence	384,915	40
Superior	1,491,942	14	Fall River	380,010	41
Baton Rouge	1,409,462	15	Pensacola	358,587	42
Port Arthur	1,405,536	16	Key West	349,510	43
Rochester	1,365,666	17	Escanaba	336,631	44
Fairport	1,259,507	18	Chester	324,404	45
Seattle	1,197,653	19	Ashland	323,784	46
Sandusky	1,112,041	20	Port San Luis	321,824	47
Tacoma	1,026,012	21	Gulfpport	311,901	48
Mobile	1,009,639	22	Corpus Christi	291,392	49
Tampa	978,852	23	Baintree	274,679	50
Newport News	868,723	24	Everett	248,089	51
Detroit	737,837	25	Wilmington, N. C.	242,358	52
Portland	678,435	26	Texas City	232,452	53
Savannah	641,730	27	Freeport	213,153	54

analysis of the handling of the commerce is secured. These figures show that the South ranks first in the volume of exports and second in imports of all the geographic divisions of the country. More than 20,000,000 tons of exports passed through Southern ports as compared with 16,725,000 tons for the Middle Atlantic group of states, including the port of New York. Texas led the Southern States with 7,580,000 tons, followed by Louisiana in second place with 5,378,000 tons. Virginia was third with 2,481,000 tons. There were imported through the South 13,731,000 tons of foreign commerce, with Louisiana the leading Southern state and Maryland in second place. Texas was third. It will be noted that in imports the only state ahead of Louisiana was New York.

More than one-third of the exports of the United States passed through Southern ports during the fiscal year of 1929 and 27 per cent of the foreign goods entering this country came through the ports of the South. Texas and Louisiana were among the leading states in the union in export and import tonnage, Texas ranking third of all states in exports

and Louisiana second in imports, New York State being first in both exports and imports. Comparing the foreign trade of other geographical divisions of the country, the South imported four times as much in volume of commodities as the Pacific Coast and nearly three times as much as New England. In export tonnage the South led the Pacific Coast by 6,575,000 tons, or nearly 49 per cent, while exports through Southern ports were nearly 40 times the tonnage handled through New England ports.

Of the ten leading ports of the country in volume of foreign trade handled for the fiscal year 1929, four were in the South. New Orleans was second, following New York; Baltimore, fourth; Houston, eighth and Norfolk, tenth.

A NATIONWIDE STUDY OF THE FEDERAL RESERVE SYSTEM

THE Chamber of Commerce of the United States has sent out, for a referendum vote of the 1700 business organizations belonging to that body, a report and suggestions for discussion as to the Federal Reserve System, stating it as a "proposal to strengthen the Federal Reserve System through clarification and development of its administrative policies."

This report, which is accompanied by several large pamphlets on the Federal Reserve System, opens up to the entire country a very broad and comprehensive investigation and study of the Federal Reserve and everything connected with its management and its operations. The referendum is based on a study of the Reserve System by the Banking and Currency Commission of the National Chamber. It is said that it was made by 50 outstanding leaders in all lines of business, labor and agriculture, but we do not find on the list of names given any farmers, though there are many farmers in this country abundantly able to investigate and study the relation of the banking interests to the welfare of such a basic industry as agriculture and to the entire country.

There is probably a greater need for a study of the Reserve System and its possible relation to agriculture than to any other phase of its work, because the Federal Reserve System is in a position to dominate the financial interests of the country, and all other organizations are in one sense more or less subsidiary or are dominated by it.

Some time ago the writer sat in a bankers' meeting in a Southern city in which, when the Federal Reserve System was under discussion, one of the bankers in attendance said: "We country bankers have no time to study finance, and we accept without question whatever plan or policy the Federal Reserve System suggests or advocates."

In this present referendum that is not the spirit which should prevail. It should be one of thought and study and a free and open expression of opinion from business men and farmers, as well as from bankers. All that is good in the Federal Reserve needs to be brought clearly to the front. If there are any evils in it, they should be made public in order that they may be eliminated. The power of the Reserve System is so great that it largely dominates the business not only of this country, but of the world, because of our world-wide influence.

In a wire to the secretary of the Chamber of Commerce of United States, the editor of the MANUFACTURERS RECORD said:

"In next to last paragraph on first page of your News Service Bulletin, released for January eleventh, about referendum of Federal Reserve System you say, 'It was made by fifty outstanding leaders in all lines of business, labor and agriculture.' I don't find in this list any agriculturists and I am therefore wondering who are the ones in the list that are classed as agriculturists. There are a number of men

who indirectly might be classed as interested in agriculture but I don't find any real farmers and yet there are some farmers in this country that in a study of finance are certainly able to measure alongside of many of the men whose names do appear on the list. I will greatly appreciate it if you will kindly wire me on receipt of this who you have classed as agriculturists in this investigation."

To this, Mr. D. A. Skinner wired in reply as follows:

"Murray D. Lincoln, executive secretary, Ohio Farm Bureau Federation, was member not only of general committee of 50 but also member of the executive or steering committee of 12, and Charles E. Lobdell, formerly fiscal agent, Federal Land and Intermediate Credit Banks, was another member of general committee representative of agricultural interests. The language of the news release may be open to misconstruction in that the correct idea is, that upon the general committee and particularly upon the executive committee were representatives of labor and agriculture. Not that all lines of labor and all lines of agriculture were represented which, of course, is an obvious impossibility."

Notwithstanding this explanation we think that agriculture should be more fully represented.

GROWING TARIFF SENTIMENT IN THE SOUTH

GEORGE W. ARMSTRONG of Natchez, Miss., and Fort Worth, Texas, the president of large iron works in Fort Worth and the owner of 23 cotton plantations, in a letter to a United States Senator wrote:

"I think both of you will find, when you return to your respective states, that there has been a tremendous change in tariff sentiment. The farmer was formerly a free trader, and the laborer partially so; they are now, along with the business man and the industrialist, protectionists, because they at last personally realize the advantage of protection, and because of that fact they have a better understanding of the subject. There are no free traders of consequence in Texas except the newspapers and the politicians and lawyers.

"I have letters from my friends Senators Sheppard and Connally advising me in substance that their positions regarding the change in tariff rates that I desire, have not changed. Senator Connally told me quite frankly in my last discussion of the subject with him that he could not, as matters then stood, support the bill in its entirety, or the change in rates that I desired. Senator Sheppard told me he would give my brief and argument very careful thought and that he had not reached a decision, and this is still his position."

Mr. Armstrong sends to this paper a copy of a letter to Senator Reed, in which he stressed the growth of tariff sentiment in the South, and on that point he said:

"I enclose you the original of an interesting letter from Mr. Edmonds, editor of the MANUFACTURERS RECORD, which I think is worthy of space in the Congressional Record. If you agree with this view I will thank you to offer it.

"Mr. Edmonds, as you know, has for years been an advocate for protection for Southern products. The change of sentiment in the South on that subject has been due partially to his bold, uncompromising advocacy of protection in season and out of season. If we had 25 editors of newspapers with the vision and courage and understanding of the subject that Mr. Edmonds possesses, the majority of the congressional representatives of the South would now stand for protection instead of free trade, or tariff for revenue only, or a low tariff. Our free traders are so from inheritance; our protectionists from experience and education.

"I also enclose you copies of letters to Senators Heflin and Sheppard regarding the political situation in Alabama and Texas. I think that the Democratic party in the South is hopelessly and irreconcilably divided. If this split develops I hope to be able to have some influence in shaping the economic policy of the anti-Tammany wing in Texas. It is largely for that reason that I expect to take a more active part in the next campaign than I have for many years past."

American Owned Foreign Factories and the Tariff

ANNOUNCEMENTS appearing so frequently in the last year or two of great American manufacturing companies that have bought branch plants abroad or that are to build there give rise to the question as to what effect this will have upon our own country and likewise upon world economic conditions. Will the countries thus invaded by American methods learn our own trick of mass production? Will they go further and adopt our philosophy of high wages and the widespread prosperity which follows high wages?

The movement of the General Motors Company into Germany gives special point to these questions. If their great German plant is operated like the General Motors plants in this country, or if the Ford plants in Ireland, Germany and Russia are to train workmen in the methods evolved in the United States, and according to the regulations of working people in this country, what will be the final outcome?

In the first place, from the ranks will come superintendents and then foremen. Young engineers will develop into executives. Hard-driven competitors are likely to hire these men to train their own forces, to re-design their plants and reorganize their methods; and other concerns will seek American engineers and managers direct, and thus American methods will prevail.

The first result of this pressure will be increased productivity, and this means that new markets must be found. This problem raises the key question of the whole situation. Will the doctrine of high wages and high living standards of wage earners go hand in hand with other American methods? If it does, the solution will present itself and will act automatically. Mass production by machinery and high wages will give labor in Europe and the Orient increased buying power demanded by the increased output of the world. But if wages are not advanced in keeping with American wages, a serious situation will be developed.

The outcome, whatever it may be, will have its effect upon our economic and therefore on our political situation. Our social order as it has been built up cannot exist now without strong tariff protection, because without it foreign goods, manufactured with labor receiving from one-fourth to one-tenth as much as corresponding labor in this country, would immediately flood our markets, close many of our factories, and throw hundreds of thousands of workers out of their jobs. But by gradually elevating our tariffs in all directions we are lifting our own industries and thus forcing foreign countries to a higher standard of wages.

By increasing our productivity per worker we increase our prosperity by higher wages and by living on a higher scale. The higher scale of living widens the gap between living standards here and abroad, and the wider that gap becomes the more difficult it is for our workers to compete with the poorly-paid laborers of Europe and the Orient. We see this in the heavy importations of cement from Europe, made by labor paid from one-fourth to one-fifth of what labor in American cement plants is getting. We see it in the importation from India of enormous quantities of jute products, made in plants some of which were formerly located in America, but which moved to India when the Underwood tariff bill put jute products on the free list; and there they pay about 15 to 17 cents a day for wages. We see it in the importation of pig iron from India where the rate of wages in a great iron and steel plant, managed by an American engineer, averages only about 10 cents a day for 8000 employes, including skilled labor.

Since we will never willingly consent to lower our living standards, unless we should unwisely fail to realize that without adequate tariff protection our markets would soon be flooded with foreign products and that wages would

inevitably be forced down, we must strive to maintain this market against the inroads of foreign products. Internationalists, whether bankers or importers, seek to decry a protective tariff for American interests, and in Congress a fight is being made to prevent the passage of a tariff bill, though a well-rounded tariff protecting the so-called raw materials, the agricultural and mineral and industrial products of the country, is absolutely essential to the maintenance of high wages and our present standard of living. A great New York banker recently freely admitted in his fight against a protective tariff that he is an internationalist.

One specific illustration of what happens to American industry under the free trade clamor which passed the Underwood bill is shown in the fact that two or three great American jute manufacturing concerns closed their plants in this country, shipped hundreds of carloads of their machinery to Calcutta, and established themselves there, furnishing employment to the people of India but killing employment for thousands of people in this country.

The question which we must face, therefore, is what effect the building by American interests of great plants in Europe and the Orient will have upon the progress of this country. Will the automobiles made in Europe, or possibly in the Orient, with cheap labor, bring about heavy importations of foreign-made automobiles?

Will other American interests follow the example of the jute manufacturers of this country of 1913, transfer their plants to the Orient or to Europe, and flood our market with their products made with what would be starvation wages to this country?

Here are questions which the American people may well ask themselves. Only through a well-rounded protective tariff is it possible to maintain our high rate of wages and that degree of prosperity which prevails in America.

CHINA TAKES NOTICE OF SOUTH'S TUNG OIL DEVELOPMENT

A DISPATCH from Shanghai reports that "Florida planters have begun to raise tung oil trees of high quality and abundance, which has caused a shiver in the Chinese industry. Exports, it is said, have already fallen off to an amazing degree."

This is only partly correct, because the Florida development has not yet progressed far enough to lessen the importation of foreign tung oil; but there is a rapid development going on in the raising of tung trees in Florida, and in other parts of the South. Here is a promising industry which should receive every possible encouragement from the Government, especially in the form of a tariff on tung oil.

The Shanghai dispatch also has the following:

"Tung oil, better known as China wood oil, is a necessary ingredient of paint driers and is used in many preservative preparations for roofing, iron and steel. It is especially valuable in varnish, its presence imparting a luster to the finish that gives a lacquer effect. It is also used in soap, ink, drugs, paper and water-proof silk.

"Although its value has been known in China for centuries, the western world knew little about the oil until 1896, when it was taken across the Pacific by an American. Now it has become a world-wide commodity."

"A GREAT responsibility for stability and prosperity rests with the whole people. I have no desire to preach. I may, however, mention one good old word—WORK."—President Herbert Hoover.

Hoover Business Acceleration Program Gets Under Way

Psychological Results Alone Would Justify the Effort

By JULIUS H. BARNES, Chairman of the Board, U. S. Chamber of Commerce, Washington, D. C.

The stock market recession of last October might easily have brought on a severe business depression. In fact, it probably would have done so except for the prompt action of President Hoover in taking measures to restore public confidence in the soundness of America's business structure.

In times of public panic the most damaging influence always is the spread of exaggerated and false rumors regarding business conditions and prospects. These rumors immediately began to fly about following the fall in stock prices and had they not been dispelled might have brought about a public hysteria which would have resulted in a shrinkage of purchases and extensive unemployment.

President Hoover, sensing the situation, called a series of conferences in Washington for the purpose of bringing to public attention the true facts as to business conditions. This action immediately had a calming influence. Going a step farther, the President called on business leadership to keep moving ahead, and thus set an example to the fearful and timorous. The response was immediate. Railroads, utilities, the great manufacturing industries all maintained wages and gave assurance of their intention to continue normal expansion and improvement programs and in some instances to go even farther than previously intended.

Thus was taken the first step in the movement now under the direction of the National Business Survey Conference to keep business stable over the critical period. The conference, which met in the United States Chamber of Commerce Building in Washington on December 5, still further served to restore confidence, when reports from more than 30 of the leading industrial groups of the country brought out information showing basically sound conditions. At this meeting the President, turning the responsibility over to business organizations, said:

"The very fact that you gentlemen come together * * * represents an advance in the whole conception of the relationship of business to public welfare. You represent the business of the United States, undertaking through your own voluntary action, to contribute something very

definite to the advancement of stability and progress in our economic life. * * * A great opportunity and a great responsibility rest upon the business and economic organization of the United States."

At this meeting of the conference it was brought out that certain weak spots did exist in business, some perhaps due to the effects of fear engendered by the stock market situation and some due to other causes. For the purpose of studying this situation there was created from the conference an executive committee of twenty-one of the leading business men of the country, men of broad business experience, most of them familiar with a number of lines of business. To furnish them continuous information there was organized also a general committee representing more than 150 major trade associations.

The conference recognized that it was possible to set in motion certain activities looking towards a bridging of the immediate future. Construction, both public and private, might be accelerated. Necessary repairs, replacements and improvements might be made. The government could speed up the release of projects, such as power sites, ocean mail contracts, etc. Home modernization could be encouraged. Wage levels could be maintained, and available employment could be spread among the largest practical number of employees. Winter maintenance work on highways could be kept up.

The government has cooperated fully in every way. Department heads in Washington have worked closely with the conference.

It is clear that the work of the conference thus far has done good. Its machinery for interchange of accurate information, its follow up of courses of action recommended have proved stimulative. The very fact that it has been in operation has inspired confidence. Unfounded rumors have been traced down and dispelled before they could do lasting damage.

It seems safe at this time to assert that we may reasonably expect to avoid the long depression and the slow recovery of previous shocks such as we sustained in the fall. The Executive Committee of the Conference will meet in Washington on January 23 to survey the situation after the turn of the year. It will have before it reports from Chambers of Commerce and trade associations showing that business is proceeding generally in a satisfactory way. Weak spots will be brought to its attention and it is hoped the committee may be able to make suggestions and recommendations which will be further helpful and valuable.

Business, it seems to me, has demonstrated that it is able through organization to take care of problems such as we have had on our hands since October if it will take advantage of counsel which can be obtained through organized study of its needs.

Results in Terms of Concrete, Brick and Steel

By RICHARD WOODS EDMONDS.

ONE very definite accomplishment resulting from Mr. Hoover's business conferences has been the setting up in the Department of Commerce of a Division of Public Construction, under Dr. John M. Gries, to "clear the obstructions from the stream of contracts let or to be let, and get it flowing smoothly and rapidly." Every day reports of 600 construction projects, contracts to be let and contracts let come to this division. From these it sifts out all that are moving rapidly and lets them alone; but where there is a hitch of any sort it gets to work to speed them up. As a result, contracts running into millions have been moved forward by periods varying from one week to six months. Millions of dollars will be spent for construction work in the late winter and early spring

that would not otherwise have been spent until spring or summer.

The Department of Commerce is starting this work in its own home. The schedule for its new building in Washington has been revised, and all structural steel will have been delivered by the first week in February. Construction will then go forward rapidly. The schedules for other government buildings in Washington are being similarly pushed ahead.

In this connection, a bill has been introduced in Congress to authorize civilian architects and engineers who design the frames of large public buildings to complete the designs, instead of turning their partial plans over to the supervising architect in Washington for completion. If this bill should be enacted, it

would mean much more rapid preparation of plans for all large federal buildings, not only this year but for the future.

To return to the work under Dr. Gries, his division has undertaken to expedite construction on all post offices and other federal buildings throughout the country. Here he has run into a multitude of complex problems. For example, a post office site was bought 2 or 3 years ago, and the government is ready to go ahead with construction, but a local faction is fighting to change the site to another part of town. A man from the division of Public Construction is working to clear away this snag. Of course, in such cases, no pressure can be exerted by the Department of Commerce; but when it is pointed out that the desires and ambitions of a local faction are hurting both sides and blocking a development project, reasonable people generally get together.

It has been stated that results of Mr. Hoover's efforts would begin to be felt in April, and if large results only are indicated, this may not be putting the date too far off. On a smaller scale, money is now being spent that otherwise would not yet be in circulation—men are at work who would otherwise be idle—but for the work of this Division of Public Construction. The acceleration of work on the buildings in Washington is one definite illustration.

Reports by State governments also indicate, not merely large building programs, but definite and pronounced acceleration in getting work started. Dr. Gries reports the most whole-hearted and enthusiastic response and cooperation on the part of State governments, municipalities, corporations and individuals.

Besides the work of this division, the Department of Commerce is cooperating with the War Department to stimulate construction already decided upon for navigation and flood control works.

No new work is being created; none is being done merely as relief or emergency work. The sole idea in all of this speeding-up is to eliminate the usual delays between determination and execution, in order that the money may be spent sooner.

The volume of work already under way as a result of these efforts is increasing, and will continue to increase.

\$1,500,000 Postoffice Addition

Richmond, Va.—Bids will be opened February 19 in the office of Jas. A. Wetmore, Acting Supervising Architect, Treasury Department, Washington, to erect an extension and remodel the post-office, courthouse and customhouse building here, for which \$1,500,000 is available. Elevators and elevator hatchway entrances are not included in this call.

\$52,000,000 EXPENDITURE BY TELEPHONE COMPANY

Southwestern Bell Increases 1930 Budget \$12,000,000 Over That of 1929—\$11,000,000 For Underground Cables

St. Louis, Mo.—Approximately \$52,000,000 will be expended by the Southwestern Bell Telephone Company during 1930 to carry out its construction program in Missouri, Arkansas, Oklahoma, Texas and Kansas, according to E. D. Nims, president of the company. The budget exceeds that of 1929 by nearly \$12,000,000, additional expenditures being necessitated by the increased use of the telephone and an expected gain of 65,000 telephones during the year. The company now serves 1,353,000 telephones.

More than \$11,000,000 will be used to place long distance cables underground and to build new long distance circuits. A tile conduit is being laid between St. Louis and Kansas City to carry a cable, which is expected to be in operation by the end of the year. Other cables will be placed between Kansas City and Joplin, Mo.; between Joplin and Carthage, Mo., and between Holdenville and Durant, Okla., to continue to Dallas. It is estimated that more than 500 miles of underground cable will be placed during the year. This project, which is designed ultimately to connect the principal cities of the Southwest by underground telephone lines, was begun in 1929. Underground cables are already in use between Oklahoma City and Holdenville and are expected soon to be in service between Fort Worth and Cisco, Tex. Repeater stations are installed in approximately each 50 miles to amplify the voice currents in the underground cables, and it is planned to build nine of these stations during the year. Four will be built between St. Louis and Kansas City, one near LaCygne, Kans., one at Ft. Scott, Kans., one at Joplin, Mo., one near Wapanucka, Okla., and one near Sherman, Texas.

Long distance offices will be erected in St. Louis, Kansas City and Dallas. It is estimated that the company will expend more than \$7,000,000 for land and buildings during the year. New switchboards, dial telephone machinery and other associated equipment are estimated to cost about \$12,000,000. Telephones to be changed to dial operation will approximate 115,000 in number, so that by the end of the year it is estimated that more than 600,000 or 42.5 per cent of all telephones served by the company will be of the dial type. Changes to dial operation will involve an exchange at St. Louis, one in Kansas City, two in Houston, one in Fort Worth and all telephones in Wichita, Kans. Two smaller unattended dial offices which require only periodic inspection, will be opened in

Kansas City, two in Dallas, one in St. Louis, one in Oklahoma City, one in Tulsa, one in Little Rock and one in Houston.

The budget includes more than \$11,000,000 for the extension of telephone lines in exchanges now operated by the company, and it is estimated that \$9,000,000 will be expended for new telephone instruments and private branch switchboards.

\$300,000 Memphis Building

Memphis, Tenn.—Plans have been prepared by Louis G. Carlisle, local architect, for a \$300,000 office building to be erected here by the National Automobile & Casualty Company, of which J. T. Russell is president. To permit further expansion of its business, the company is increasing its capital stock from \$200,000 to \$1,000,000.

Contract for \$1,000,000 Building

Atlanta, Ga.—General contract has been awarded to the Southern Ferro Concrete Co., local builder, to erect a \$1,000,000 office building here for the Healey Real Estate & Improvement Co. The structure will be 16 stories and basement, 100 by 87.9 feet, with an open air court in the rear 40 by 60 feet; of reinforced concrete and steel frame, brick and tile walls and stone trim. Four passenger elevators will be installed. Pringle & Smith are the architects and Robert G. Lose and W. C. Spiker & Co., structural engineers, all of Atlanta.

\$2,500,000 Railroad Expenditure

Mobile, Ala.—The 1930 improvement program of the Gulf, Mobile & Northern Lines will involve an expenditure of approximately \$2,500,000, according to P. E. Odell, vice-president and general manager. This expenditure will cover new freight and passenger equipment, new rail and ballast and additional facilities for handling its service. Reports from Bogalusa, La., state that more than \$1,000,000 will be expended for the improvement of the rolling stock, tracks and other equipment of the New Orleans Great Northern Railroad Company, which was recently acquired by the Gulf, Mobile & Northern. Two hundred gondola 50-ton freight cars will be built at a cost of \$400,000, material to be purchased and the cars built in the shops at Bogalusa, La. About \$250,000 will be expended to improve the passenger service, to include the purchase of some large gas-electric motor cars and several steel passenger coaches, while \$100,000 will be expended on the roadway and \$50,000 to build new telephone and telegraph lines.

Great Diversity of Products Required in South's Expansion Program As Revealed in Enormous Industrial Projects

By CARROLL E. WILLIAMS

A RECAPITULATION of industrial growth last year in the territory from Maryland to Texas shows the great number of major industrial enterprises undertaken by a diversity of interests and indicates that practically every part of this section shared in the development. In 1929 many millions of dollars were invested in Southern plants, costing from \$1,000,000 to \$10,000,000 each, by nationally known concerns turning out such products as rayon, ammonia, chemicals, foodstuffs, soaps, automotive woodwork, paper, iron and steel, textiles, electrical and telephone supplies. The list of new developments includes the names of such great corporations as Western Electric, Atmospheric Nitrogen, Du Pont, Procter & Gamble, Viscose, Murray Body, International Paper, Carbide & Carbon, Bethlehem Steel, Goodyear, and Goodrich.

Some of the new plants are manufacturing products not heretofore turned out in quantities in this section. Others represent the concentration in the South of a particular industry due to a growing recognition of the value of favorable climatic conditions, availability of raw materials, plentiful supply of power, efficient labor, nearness to markets, excellent transportation facilities, etc.

A view of the development as it is unfolded from week to week in the construction columns of the MANUFACTURERS RECORD reveals that the South is being stirred into activity in a multitude of endeavors that stamp the forward movement as most impressive and significant. There are thus being opened up new opportunities for employment and for the sale of machinery and supplies and for utilization of the efforts of engineers, architects and contractors in an ever broadening field.

Practically Every Section of South Shares in Industrial Expansion

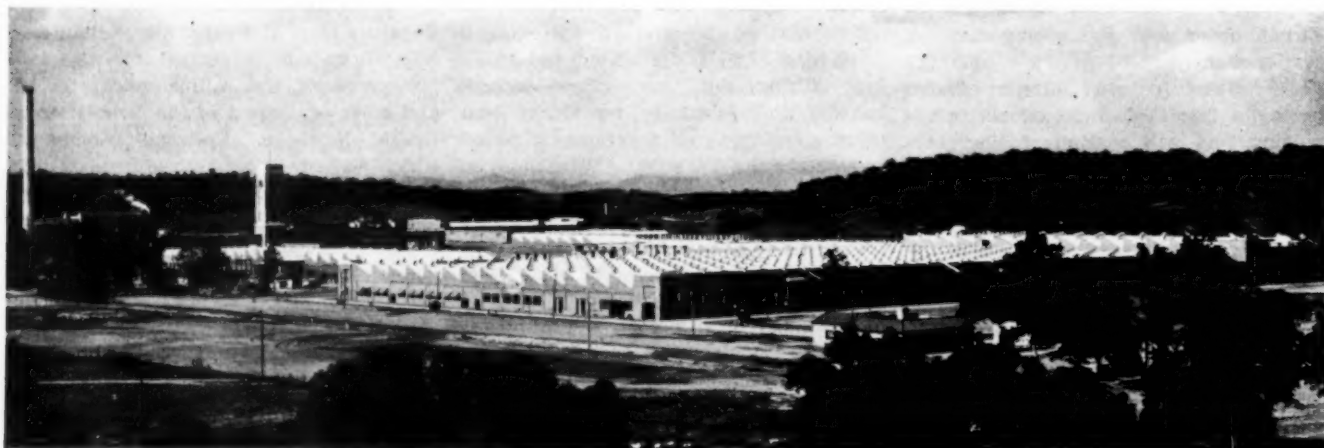
THE American Cigar Co., a subsidiary of the American Tobacco Co., New York, began work last year on a \$2,500,000 plant at Louisville, Ky. The Celotex Co., controlled by the Dahlberg interests of Chicago, greatly expanded facilities at its New Orleans plant. Black & Decker Mfg. Co., Towson, Md., producers of small electric tools, added various plant improvements during 1929. Procter & Gamble Co., Cincinnati, will shortly complete a \$4,000,000 soap factory in the Locust Point section of Baltimore.

A large force of workmen is pushing work on the initial units of a projected \$25,000,000 cable and insulated wire plant for the Western Electric Company, Inc., on a 180-acre site at Point Breeze, Baltimore, to ultimately give employment to more than 25,000 persons.

At a cost of \$3,000,000 an exhibition center was completed at St. Louis. The Anheuser-Busch interests completed a \$1,000,000 power plant at their St. Louis plant last year. The Ducktown Chemical & Iron Co., Ducktown, Tenn., reported a \$1,000,000 acid plant expansion. The Tennessee Eastman Corp., Kingsport, Tenn., started work last year on a plant for the manufacture of cellulose acetate.

The Aluminum Company of America, Pittsburgh, last year completed at Alcoa, Tenn., a \$2,000,000 aluminum bronze powder mill and started work on an aluminum rolling mill through a subsidiary, the United States Aluminum Co. Through other subsidiaries it is preparing to undertake a great hydro-electric development program, in connection with which a ten-mile rail line is being built to reach three power sites. Upon completion of the high power development program it is understood that the Aluminum Corp. will undertake the development of various plants turning out aluminum products on a big scale.

The Illinois Terminal Railroad System



\$10,000,000 Rayon Manufacturing Plant of American Enka Corporation, near Asheville

will erect a \$5,000,000 warehouse and freight terminal in St. Louis.

Iron, Steel and Metal Working Industry Grows

THE Bethlehem Steel Co. improvements at Sparrows Point, Md., involve the expenditure of \$20,000,000 and includes besides six open hearth furnaces, a blast furnace No. 3, a new wire mill warehouse, and rebuilding of an entire unit of coke ovens to increase the output one third. A new 40-inch universal slabbing mill with soaking pits and auxiliary buildings and equipment, four hot sheet mills and auxiliaries, extensions to the galvanizing department and sheet mills are also under way.

The Gulf States Steel Co., Gadsden, Ala., is installing an electrified 40-inch blooming mill, a 32-inch electrified plate and sheet mill, and will probably turn out sheets by the continuous process. The diversification of output is necessitating the expenditure of more than \$5,000,000 for improvements.

The Tennessee Coal Iron & Railroad Co., Birmingham, Ala., early last year announced plans for doubling the capacity of its rolling and galvanizing departments at its Fairfield sheet mills to involve the expenditure of \$7,500,000. It completed at its Ensley works two 1250 horsepower boilers and additions to shearing and loading facilities at the billet mill. At the Fairfield works it completed a 12-inch cotton tie and hook mill and converted a jobbing mill into two sheet mills. At Ensley it is rebuilding five ladle cranes in the open hearth department and extending the fertilizer plant. At Fairfield extensions are being made to the finishing departments of the sheet mill and it is erecting a continuous reheating furnace and building, and combination bar and structural mill.

The United States Steel Corp., New York, announced a three year program to involve the expenditure of \$300,000,000, a part of which will be used for expanding Southern properties.

The Weirton Steel Co., Weirton, W. Va., the Great Lakes Steel Corp., Detroit, and the M. A. Hanna Co., Cleveland, were merged last year, the holding company being known as the National Steel Corp. Weirton Steel Co. is pushing work on a \$10,000,000 expansion program calling for a diversified continuous mill; addition of 40 by-products coke ovens; relining blast furnace No. 2 and increasing its output; rebuilding blast furnace No. 1; increasing open hearth capacity. It will also build a 24-inch structural mill, to make rounds and squares, angles and smaller sections of beams and channels.

The Eastern Rolling Mill Co., Baltimore, is installing continuous pack heat-

Some Major Southern Projects

This Brief Summary, Giving Available Cost Figures, Illustrates the Diversity of the South's Industrial Expansion

Name	Expenditure	Location	Projects
United States Steel Corp.....	\$300,000,000	Partly in South	Iron and Steel
Goodyear Tire & Rubber Co. (Begun)	30,000,000	South	Rubber Tires
Western Electric Co. (Begun).....	25,000,000	Baltimore	Electrical
American Cyanamid Co. (Proposed).....	25,000,000	Tennessee	Chemicals
Bethlehem Steel Co.....	20,000,000	Sparrows Point, Md.	Steel
Weirton Steel Co.	10,000,000	Weirton, W. Va.	Steel
Pullman Car and Mfg. Corp.....	10,000,000	Bessemer, Ala.	Cars
American Enka Corp.....	10,000,000	Asheville, N. C.	Rayon
B. F. Goodrich Rubber Co.....	8,500,000	Silvertown, Ga.	Tire cord
Texas and Pacific Railway.....	8,000,000	Fort Worth	Terminal
Tennessee Coal, Iron and R. R. Co.	7,500,000	Fairfield, Ala.	Iron & Steel
Pittsburgh Plate Glass Co.....	6,000,000	Crystal City, Mo.	Safety glass
Merchants and Manufacturers Building	6,000,000	Houston, Texas	Storage
Gulf States Steel Co.....	5,000,000	Gadsden, Ala.	Steel
Illinois Terminal Railroad System.	5,000,000	St. Louis, Mo.	Terminal
American Cyanamid Co.....	5,000,000	Tampa, Fla.	Fertilizer
International Paper Co.....	5,000,000	Mobile, Ala.	Paper
Brown Paper Mill Co.....	5,000,000	Monroe, La.	Expansion
U. S. Phosphoric Products Co.....	4,500,000	Tampa, Fla.	Chemicals
National Acetate Silk Co. (proposed)	4,000,000	Hopewell, Va.	Cellulose
American Chatillon Corp.	4,000,000	Rome, Ga.	Rayon
Procter & Gamble Co.....	4,000,000	Baltimore	Soap
American Tobacco Co.....	3,500,000	Richmond, Va.	Cigarettes
Nichols Copper Co.....	3,500,000	El Paso, Tex.	Copper
Atlas Portland Cement Co.....	3,000,000	Waco, Texas	Cement
U. S. Cold Storage Co.....	3,000,000	Atlanta, Ga.	Cold Storage
American Cigar Co.....	2,500,000	Louisville, Ky.	Cigars
Arkansas Portland Cement Co.....	2,500,000	Okay, Ark.	Cement
Missouri Portland Cement Co.....	2,500,000	St. Louis	Cement
Republic Portland Cement Co.....	2,500,000	Longhorn, Texas	Cement
Murray Wood Products Corp.....	2,500,000	Memphis, Tenn.	Auto Bodies
Pittsburgh Plate Glass Co.....	2,000,000	Henryetta, Okla.	Window glass
Carbide and Carbon Chemical Corp.	2,000,000	S. Charleston, W. Va.	Chlorine
Bethlehem Shipbuilding Corp.....	2,000,000	Baltimore	Shipbuilding
Galveston Wharf Co.....	2,000,000	Galveston, Texas	Elevator
Gulf, Colorado & Santa Fe Railway	2,000,000	Fort Worth, Texas	Terminal
Aluminum Company of America....	2,000,000	Alcoa, Tenn.	Aluminum
The John H. Heald Co.....	2,000,000	Lynchburg, Va.	Box board
St. Louis-San Francisco Railway...	1,800,000	Springfield, Mo.	Improvements
Albemarle-Chesapeake Co., Inc....	1,500,000	West Point, Va.	Paper
Chicago, Wilmington & Franklin Coal Co.....	1,500,000	Eccles, W. Va.	Improvements
B. F. Goodrich Rubber Co.....	1,500,000	Atlanta, Ga.	Tires
Burrus Mill & Elevator Co.....	1,500,000	Dallas, Texas	Elevator
Westvaco Chlorine Products Corp...	1,250,000	S. Charleston, W. Va.	Improvements
Homer Laughlin China Co.....	1,250,000	Newell, W. Va.	Pottery
Goodyear Tire & Rubber Co.....	1,000,000	Gadsden, Ala.	Rubber Reclaiming
International Shoe Co.....	1,000,000	Malvern, Ark.	Cloth
Pan-American Petroleum and Trans. Co.	1,000,000	Savannah, Ga.	Roof coating and asphalt cement
Walcott & Campbell Co.....	1,000,000	Gulfport, Miss.	Cotton
Ducktown Chemical & Iron Co....	1,000,000	Isabella, Tenn.	Chemicals
Rosemary Manufacturing Co.....	1,000,000	Roanoke Rapids, N.C.	Cotton
Mengel Body Co.....	1,000,000	Louisville, Ky.	Auto bodies
Rock Hill Printing & Finishing Co.	1,000,000	Rock Hill, S. C.	Cotton
Seaman-Dunning Corp.....	1,000,000	Pine Bluff, Ark.	Auto bodies
Armstrong-Newport Co.....	1,000,000	Pensacola, Fla.	Insulating board
Fine Goods Mills.....	1,000,000	New Braunfels, Tex.	Textile
Greenville Insulating Board Corp., Subsidiary of The Paapeke Corp.	1,000,000	Greenville, Miss.	Insulating board
Procter & Gamble Co.....	1,000,000	Memphis, Tenn.	Chemicals
Sylvania Industrial Corp.....	1,000,000	Fredericksburg, Va.	Paper
U. S. Cold Storage Co.....	1,000,000	Kansas City, Mo.	Cold storage
Merchants Terminal Corp.....	1,000,000	Baltimore	Cold storage
Borden Company.....	800,000	Waco, Texas	Milk
International Agricultural Corp...	750,000	Texarkana, Texas	Fertilizer
Southern Building Products Corp...	600,000	Savannah, Ga.	Roofing
Scobey Fireproof Storage Co.....	500,000	San Antonio	Cold and dry storage
Southern States Cable Corp.....	500,000	Mobile, Ala.	Wire
Beacon Manufacturing Co.....	500,000	Swannanoa, N. C.	Cotton
Swift & Company.....	500,000	West Point, Miss.	Poultry and milk
Lamson & Sessions Co.....	500,000	Birmingham	Bolts, nuts, etc.
Locke Insulator Co.....	500,000	Baltimore	Insulation
Southern Phosphate Co.....	500,000	Bartow, Fla.	Fertilizer

This list merely presents a few of the outstanding developments which indicate the industrial progress under way in the South.



General View of Baltimore Dry Docks Works of Bethlehem Shipbuilding Corporation, Ltd.

ing furnaces to be in operation early this year.

Lamson & Sessions Co., Cleveland, Ohio, started work in 1929 on a plant estimated to cost \$500,000 in North Birmingham, Ala. to produce bolts, nuts and cotter pins. The Lamson and Sessions Co. and the Lake Erie Bolt & Nut Co. were merged in October, 1929.

The Pullman Car & Manufacturing Corp. completed a \$10,000,000 plant at Bessemer, Ala., near Birmingham, for the manufacture of freight, refrigerator cars, etc. The shops, containing 418,000 square feet of floor space, have a capacity of 25 freight cars daily.

Production began in 1929 in the first cotton loom plant built in the South, that of the Standard Looms, Inc., Spartanburg, S. C. The Draper Corp., Hopedale, Mass., erected a machinery assembling plant. Thus, in addition to the already established distributing plants established in the section by northern manufacturers of textile mill machinery, prospects point toward the ultimate concentration in the South of textile machinery manufacturing plants. Shuttles, loom harness, bobbins and similar items are now manufactured in the South.

New Plants Emphasize Industrial Development Under Way In the South

THE Pittsburgh Plate Glass Co., Pittsburgh, Pa., is expending approximately \$6,000,000 in a plant at Crystal City, Mo., to produce safety sheet glass products, primarily for automotive service, and approximately 1,000,000 square feet monthly will be produced by the new process, increasing the capacity of the Crystal City works to about 26,000,000 square feet of plate glass of various kinds annually. The company is also erecting a \$2,000,000 window glass plant at Henryetta, Okla.

The Dupont Ammonia Co., formerly Lazote, Inc., main office Wilmington, Del., is steadily expanding the output of its

plant at Belle, W. Va., engaged in the production of ammonia, methanol, and commercial alcohols. The Carbide & Carbon Chemical Corp. awarded contracts late in 1929 for a synthetic alcohol plant at Charleston estimated to cost about \$2,000,000. The Westvaco Chlorine Products Corp., New York, invested approximately \$1,250,000 in plant improvements at South Charleston, W. Va.

The Southern States Cable Corp. last year completed a \$500,000 plant at Mobile to manufacture weatherproof wire and solid and stranded wire.

If subsidiaries of the American Cyanamid Co. are permitted to go forward with the construction of several big hydro-electric projects proposed in Tennessee, the parent company will expend upwards of \$25,000,000 in chemical plants in the state.

Swift & Co., Chicago, last year completed at West Point, Miss., a \$500,000 poultry packing, milk products and produce plant. The Borden Co. completed last year an \$800,000 milk products plant at Waco, Texas. The American Tobacco Company, Inc., has work under way at Richmond, Va., on a cigarette plant estimated to cost \$3,500,000.

The Bethlehem Shipbuilding Corp. completed at a cost of \$2,000,000 a modern shipbuilding and repair plant at Baltimore. The Nichols Copper Co., New York, erected a \$3,500,000 copper refinery at El Paso, Texas.

The United States Phosphoric Products Corp. last year pushed work at Tampa, Fla., on a \$4,500,000 project.

Big Investments in Southern Plants Made by Tire Concerns

THE establishment of tire manufacturing plants in the South is attracting much attention. The most notable undertaking last year was that of the Goodyear Tire & Rubber Co., of Akron, Ohio. This company completed the first unit of a \$30,000,000 plant at Gadsden and erected nearby a \$1,000,000 rubber

reclaiming plant. In addition it built a 50,000-spindle mill at Rockmart, Ga., 14 miles north of Cedartown, Ga., where the Goodyear-Clearwater Mills are located, the latter being enlarged by the installation of 18,000 more spindles, bringing the total spindleage to 50,800. The company last year purchased a fabric mill from the American Textile Co., which was changed to suit the needs of the new owners and was increased to 50,000 spindles. The company now has in operation over 150,000 spindles in the South. The tire plant is already turning out more than 5,000 tires daily.

The B. F. Goodrich Rubber Co., Akron, Ohio, will construct a \$1,500,000 plant at Atlanta, Ga., to produce 10,000 tires and tubes daily. This plant, with the \$8,500,000 tire cord mill completed during 1929 at Silvertown, Ga., will bring the investments of the Goodrich interests in the South to a total of more than \$10,000,000.

Local and Outside Interests Financing Great New Enterprises

THE Birmingham Slag Co. completed a plant to handle the output of slag from two large blast furnaces at the Fairfield works of the Tennessee Coal, Iron & Railroad Co., the company's fifth plant. It has a capacity daily of 2000 tons.

The Foremost Dairy Products, Inc., Jacksonville, Fla., and the Southwest Dairy Products Co., Dallas, Texas, were merged in December and plans announced for a general expansion program of properties in the South and Southwest.

The Southern Sugar Co. in January completed the second major step in the conversion of the Florida Everglades into a great sugar producing area, when it placed in operation a cane sugar mill at Clewiston with a daily capacity of 4000 tons. Already more than \$12,000,000 has been invested. The company's six year development program calls for the addition of a 5000-ton grind-

ing mill each year and the planting of 20,000 acres of new cane, so that by 1936 there will be 135,000 acres of cane for harvesting 4,500,000 tons, estimated to produce 450,000 tons of raw sugar. This year a 5,000-ton mill will be built at Canal Point. Bagasse will be turned in to Celotex.

Work is under way on a \$600,000 plant for the Southern Building Products Corp., affiliated with the Certain-teed Products Corp., New York, to produce a complete line of Certain-teed asphalt roofing and shingles. The Pan-American Petroleum & Transport Co., New York, through a subsidiary, is erecting a \$1,000,000 asphalt refinery at Savannah, Ga., adjoining the plant of the Southern Building Products Corp. and in addition to supplying its raw materials will turn out roof coatings, asphalt cement, etc.

The Flintkote Co., Boston, Mass., last summer acquired an asphalt roofing plant at Atlanta, Ga.

Growing Center for Rayon

THE National Acetate Silk Co. was organized last year by the American Chatillon Corporation and the Tubize Artificial Silk Company of America to erect a \$4,000,000 plant probably at Hopewell, Va., for manufacture of cellulose acetate yarn by a process similar to that employed by the American Chatillon Corp. in its \$4,000,000 plant, completed last year at Rome, Ga. The American Enka Corp. completed a \$10,000,000 rayon plant near Asheville.

Expansion in Cotton Industry

THE Pepperell Manufacturing Co. let contract for a 20,000-spindle unit at Opelika, Ala., to produce print cloths. Organization of the Alabama Textile Product Corp. was effected at Andalusia, Ala., for manufacture of underwear and play-suits. In Arkansas a \$1,000,000 mill for production of hard cloth for shoe linings and gloves was opened at Malvern by the International Shoe Co., St. Louis. Napping capacity of the Meritas Mills, Columbus, Ga., was doubled by erection of a 3-story addition. A \$1,000,000 mill was planned at Gulfport, Miss., by the Walcott and Campbell Spinning Co. Additions costing \$500,000 were announced by the Beacon Manufacturing Co., Swannanoa, N. C. The Rosemary Manufacturing Co. let contracts for a \$1,000,000 addition at Roanoke Rapids, N. C. The Henry River Mills Co. was incorporated at Henry River, N. C., with a capital of \$250,000. A \$1,000,000 mill for the Rock Hill Printing & Finishing Co. was completed at Rock Hill, S. C. The Dyersburg Cotton Products Co. finished a \$250,000 mill. The Fine Goods Mill was organized at New Braunfels, Texas, to erect a \$1,000,000 mill to manufacture cotton, silk, mohair and woolen goods.

Many New Grain Elevators

J. PERRY BURRUS ELEVATORS will erect a \$1,500,000 elevator addition at Dallas this year. The Galveston Wharf Co., Galveston, Texas, is spending \$2,000,000 for a reinforced concrete grain elevator. Contracts were awarded early in 1929 for additions to the Enid, Okla., elevator of the Pillsbury Flour Mills. The General Mills, Inc., awarded contracts early last year for a 2,000,000 bushel elevator at Oklahoma City, Okla. The Universal Mills, Fort Worth, last year erected a new flour and meal mill and elevator.

Railways Building Shops

THE Chesapeake & Ohio Railroad Co. moved 700,000 cubic yards of material in connection with a tunnel elimination job at Ona, W. Va. The Texas & Pacific Railway Co. will begin work this year at Fort Worth on a new terminal freight warehouse and passenger station to cost \$8,000,000. The Gulf, Colorado & Santa Fe Railway proposes a \$2,000,000 passenger station and freight terminal at Fort Worth. The St. Louis-San Francisco Railway may expend \$1,800,000 for shop improvements at Springfield, Mo.

New Cement Mills Stimulate Establishment of Concrete Products Plants

CEMENT companies in the South are making use of inland waterways for shipping the product in bulk. The Marquette Cement Manufacturing Co., Chi-

cago, began operating self-unloading barges on the Mississippi River between its recently enlarged Cape Girardeau, Mo., plant and storage depots at Memphis, Tenn., and St. Louis, Mo. The International Cement Corp. is using specially constructed barges to transport bulk cement from its Norfolk, Va., plant to the distributing depot at Washington, D. C. The Atlas Portland Cement Co., New York City, with plants at Northampton, Pa., Hannibal, Mo., Leeds, Ala., Hudson, N. Y., and Independence, Kans., last year completed a \$3,000,000 plant at Waco, Texas, with a capacity of 1,000,000 barrels annually. Another new plant is the \$2,500,000 cement mill of the Arkansas Portland Cement Co., St. Louis, Mo., at Okay, Ark., which has a daily capacity of about 4600 barrels. The National Portland Cement Co. was organized by Texas and Mississippi interests to erect a plant on the Mississippi River near Vicksburg. The Southwestern Portland Cement Co., El Paso, Texas, in 1929 extensively improved its plant, including installation of a dust collecting system. It now has a capacity of 3600 barrels daily. The new \$2,500,000 plant built by the Missouri Portland Cement Co. produces exclusively Prestolith Velo cement, said to attain in 24 hours the strength required of normal cement concrete in 28 days. The Republic Portland Cement Co., San Antonio, Texas, shipped the first cement last August from its 3600-barrel mill at Longhorn, Texas, erected at a cost of about \$2,500,000 in less than 11 months.

Along with the building of new cement

Southern Quarries Use Modern Equipment



Caterpillar Sixty and Marion Shovel with Athey rear dump trailer being used on operations of the Sunbeam Quarries Co., Clermont, Kentucky

plants in the South numerous concrete products plants are being established and are now turning out a variety of products in many sections. Development of these plants is facilitated by the volume of construction and building work under way in the territory, necessitating the use of building products of all types. What is more, sand and gravel, crushed stone and slag are available as aggregate. When a section does not have nearby one type it seems another is available at close range so that transportation charges do not make for prohibitive prices on aggregates. A big business has been developed by several companies which manufacture slag obtained at steel mills into sizes suitable for concrete work of all kinds as well as for railroad ballast. Ornamental concrete products in almost endless variety are turned out. Cast stone and cut stone for building construction are being extensively used. The demand for concrete blocks, cement brick, concrete tile and shapes for silos and similar structures is good. Other products turned out run the range from concrete septic tanks to concrete burial vaults.

Clayworking Industry Developing

THE Homer Laughlin China Co., Newell, W. Va., completed a \$1,250,000 addition to its pottery plant, bringing the total area under one roof to 1,000,000 square feet. The Babcock-Wilcox Co., New York, which for some years has been producing in East Liverpool, Ohio, high duty refractories from Georgia clays, has erected several units of what will ultimately be a very large plant at Augusta, Ga. Locke Insulator Corp., Baltimore, expended \$500,000 for expansion operations at its plant which produces porcelain insulators for high power transmission lines and important extensions are proposed.

The A. P. Green Fire Brick Co., Mexico, Mo., completed additions to its plant, including the installation of a tunnel kiln to have a capacity of 36,000 bricks daily.

The North American Refractories Co.

was organized by consolidating among others the Ashland (Ky.) Fire Brick Co. and the Farber Fire Brick Co., Farber, Mo.

The Reliance Clay Products Co., Dallas, represents a consolidation of the Mineral Wells (Texas) Brick Co.; Tyler (Texas) Brick Co.; Reliance Brick Co., Dallas, and the Midwest Brick Co., Wagoner, Okla., the combined capacity totaling 50,000,000 brick and 50,000 tons of hollow tile annually.

The Globe Brick Co., East Liverpool, Ohio, started work in the fall of 1929 on a glazed and enameled brick plant near Kenilworth, W. Va.

South Sets Country Pace in Reforestation Operations

THE Southern lumber industry is getting on a self-perpetuating basis. The larger companies are building big capacity mills to be supplied over a period of many years through the growing of timber on cut-over lands and by selective cutting and the utilization of scientific reforestation methods. Along with the plan for insuring material for the mills the concentration in the South of the paper industry has centered attention on the need for suitable wood for such plants. The subject of trees as an agricultural crop is receiving particular attention. Southern enterprises are setting an example for the entire country in applied forestry management on a strictly commercial basis. A step further in the conservation of timber resources are the activities of the creosoting companies in promoting the use of treated timber.

The fact that lumber production is only one item in the section's timberland future should also be borne in mind. Naval stores, staves, headings, hooks, box shooks, railway ties, telegraph poles and the like are also manufactured. In connection with the big expansion of building and construction work the South is steadily increasing the consumption of soft wood lumber produced in its plants, and it is steadily manufacturing in

greater volume finished products from its soft and hard woods.

New Fertilizer Plants

INITIAL construction operations began last summer on a \$5,000,000 superphosphate plant at Tampa, Fla., for the American Cyanamid Co., New York. F. S. Royster Guano Co., Norfolk, Va., erected a plant at Jackson, Miss.

The International Agricultural Corp., New York, started work in July on a \$750,000 plant at Texarkana, Ark.-Tex.

The Davison Chemical Co., Baltimore, continued improvement of its Curtis Bay sulphuric acid plant during 1929 using the new Silica Gel contact mass method. This year it proposes to build a town for employees. The Davison-Pick Fertilizers, Inc., purchased a 15-acre site on the ship channel at Houston for a large plant. The same company expanded its operations at Orange, Texas. The Davison interests acquired the Central Chemical Co. with plants at Baltimore, Hagerstown and Lancaster, Pa., as well as the Berkshire Chemical Co., Bridgeport, Conn., giving the company about 50 plants scattered in the territory from Connecticut to Texas. The Southern Phosphate Co., a Davison subsidiary, started work in December on a \$500,000 phosphate rock drying plant at Bartow, Fla.

Woodworking Industries Concentrating in Southern States

THE concentration of woodworking industries in the South has been one of the noteworthy industrial developments of the recent past. Over a long period the textile industry has been developing in the territory from Maryland to Texas, due to the advantage of being close to the supply of raw materials, coupled with the additional attractions of an abundant supply of power, plentiful efficient labor, favorable climatic conditions, lower cost of building and maintenance, helpful legislation and public support generally. Then followed big-scale development in the section of the rayon producing industry. Now paper plants are being built in various parts of the South where raw materials are available.

Thus, the same factors that influence the migration of industries of many kinds to the South favor the establishment of wood-consuming industries in the territory. Furniture manufacturing is already well established in several states, and plants of various types have been built in scattered cities and towns. Hardwood flooring is manufactured in big volume. Recently automobile body manufacturing plants have been built in the hardwood lumber producing regions. Also the fabricating of wood parts for automobile bodies has necessitated the building of plants especially designed for



\$5,000,000 Additions to Plant of Brown Paper Mill Company, Monroe, La.

this purpose, and employment is given to thousands of persons. Heretofore, Southern lumber was shipped in the rough to plants in the automobile producing centers and there made into finished parts. Now the parts are completely finished in plants located near the source of supply of Southern lumber.

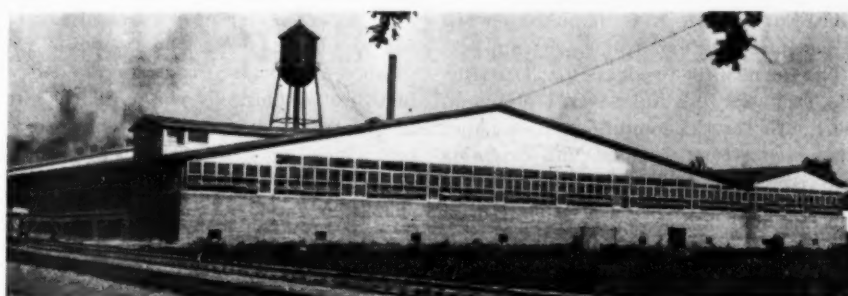
Automobile Woodwork Turned Out in Many Plants

SOME of the wood-using industries established recently in the South are mentioned herewith. The Murray Wood Products Corp., Memphis, erected a \$2,500,000 body plant and shortly after completing it announced plans for a duplicate unit. A similar plant was established by the Briggs Manufacturing Co., Knoxville. The Mengel Body Co. is developing a \$1,000,000 plant at Louisville, Ky. The Seaman-Dunning plant at Pine Bluff, Ark., represents an investment of \$1,000,000, employs 700 persons and utilizes more than 30,000,000 feet of lumber annually. The Graham-Paige Body Corp. has a plant at Perry, Fla., adjoining the mill of the Wilson Lumber Co., for the manufacture of automobile woodwork. At Nashville is the Wayne Lumber & Manufacturing Co., a Briggs subsidiary, turning out automobile woodwork. An affiliated plant is the Sterling Wood Products Co., Knoxville. The Savannah River Lumber Co., Savannah, Ga., cuts material for assembling into automobile bodies. The Pekin Wood Products Co., Helena, Ark., also turns out body parts.

Instead of turning out rough lumber solely Southern plants are making dimension stock for a wide variety of purposes. This calls for the installation of specially designed machinery. Such a plant is that of the Canton Wood Products Co., Canton, Miss., which turns out radio stock, furniture and bed stock, automobile sills and furniture for assembly by retailers. Other items manufactured and worked at Southern mills are knock-down shipping crates for heavy products, saw blade protectors, wagon tongues and small boards, such for instance as floor boards or running boards for motor cars and trucks.

Extensive Utilization of Sawmill Wastes in New Plants

SURVEYS have been undertaken in several states with a view to fostering the establishment of by-product industries which are in a position to use saw mill waste as a raw material, and there is a noticeable trend in the South toward the manufacturer of pulp, wood chemicals, charcoal, paper and similar products from sawdust and other wood waste. The naval stores industry is doing its part in conservation and in addition to the turpentine, rosin, and crude gum produced by well-known methods the



\$1,000,000 Wooden Parts Plant of Seaman-Dunning Corporation, Pine Bluff, Arkansas

products are widely manufactured in Southern plants by the steam solvent and destructive distillation processes using old field stumps, down-timber, mill waste, etc.

The Newport Co., Pensacola, Fla., is successfully engaged in a production of naval stores from field stumps and light wood from cut-over pine land. Following a series of experiments in the use of extracted pine wood for the manufacture of insulating board, that company and the Armstrong Cork & Insulation Co., Lancaster, Pa., are building a \$1,000,000 insulating board plant.

Greenville Insulating Board Corp., subsidiary of the Paepcke Corp., Chicago, started work last year on a \$1,000,000 insulating board plant at Greenville, Miss., using waste wood from nearby hardwood mills.

Another plant developed in connection with the lumber industry which is steadily expanding as demand for its product grows, is that of the Mason Fibre Co., Laurel, Miss., which manufactures Masonite, an insulating board, and Presdwood, a grainless board from mill waste, using as raw materials waste from local mills and also second growth timber.

Numerous Wood Preserving Plants Encourage Use of Treated Timber

THE Brown Wood Preserving Co., a \$2,500,000 subsidiary of the W. P. Brown & Sons Lumber Co., Louisville, Ky., started work in November on a creosoting plant. The Hagerstown (Md.) Timber Treating Company, Inc., started work in December on a new plant. T. J. Moss Tie Co., St. Louis, Mo., last year completed a wood treating plant at Columbus, Miss., the fifth of a chain of similar plants established by the company in various sections.

The E. L. Bruce Co., Memphis, Tenn., in December acquired the Marathon Lumber Co. property in Mississippi, Arkansas, Tennessee, Louisiana, Illinois and Michigan and also hardwood timber belonging to the Wausau Southern Lumber Co. The Chicago Hardwood Lumber Co., Chicago, Ill., pushed work last year on a two band and resaw mill at Sequatchie, Tenn.

Lumber from Waste and Second Growth Timber

SYNTHETIC lumber may never supplant sawed lumber, but its manufacture is increasing rapidly and its production makes possible the utilization of a very large percentage of the tree. Who knows but that the future may see in the South the production on a big scale of trees for use in the manufacture of man-made lumber exclusively? For the South's soil is adjudged by experts to be the best suited in the known world for the production of tree crops.

Impregnating lumber to make it capable of resisting the actions and agencies which induce decay and cut short its usefulness is conserving our timber. New plants are going a step further than to merely treat timber. Some have built completely equipped mills so that they may efficiently turn out timber cut to size, properly drilled and finished ready for assembly into finished structures.

Kraft Paper Industry Development on Big Scale Indicates Concentration of Industry in the Section

THE International Paper Co., which last year completed a \$5,000,000 plant at Mobile, Ala., now has a \$5,000,000 plant at Camden, Ark., two big plants at Bastrop, La., another at Moss Point, Miss., and is said to have plans for others in the turpentine belt. Subsidiary companies produce millions of bags in plants erected alongside several of the Southern paper mills owned by the International Company.

The John H. Heald Co., a consolidation of the Mead Paper Board Co., Dayton, Ohio, and the John H. Heald & Co., of Lynchburg, erected a liner board plant at Lynchburg, estimated to involve the expenditure of \$2,000,000. The Dupont Celophane Co., Inc., New York, announced plans last year for a transparent wrapping paper plant to involve a big expenditure and to be erected at Old Hickory near Nashville, Tenn.

The Albemarle-Chesapeake Company, Inc., will complete at West Point, Va., a 100-ton paper mill involving expenditure of about \$1,500,000. The Champion

Fibre Co., Canton, N. C., is pushing work on a continuous expansion program.

The Corn Stalk Products Co., Danville, Ill., proposes to build several plants in the South for the manufacture of paper from rice straw, bagasse and probably cotton seed hulls. Besides a number of important chemical by-products will be produced.

The Buckeye Cotton Oil Co., Memphis, Tenn., pushed work last year on a paper pulp plant. Procter & Gamble Co., Cincinnati, let contracts for a \$1,000,000 chemical cotton plant at Memphis.



Milk Products Plant of Tyler Milk Company in Smith County, Texas

Work began last year on a \$1,000,000 transparent paper plant for the Sylvania Industrial Corp., New York, at Fredericksburg, Va.

The Brown Paper Mill Co., Monroe, La., started work last year on additions costing \$5,000,000 to double the capacity of its plant.

New Ice and Cold Storage Plants

OPPORTUNITIES for cold storage plants in the South to handle products of farm and orchard are attracting local and outside interests. Numerous investigations are under way by Northern capitalists with a view to providing such facilities in various sections of the South. Already a number of new plants have been completed, several are under way and other projects are proposed. One of the largest and most modern cold storage plants completed last year was that of the Tampa Union Terminal Co., Tam-

pa, Fla., consisting of a warehouse, a citrus packing house, a power house, transit shed and a reinforced concrete dock to facilitate shipping by water. The United States Warehouse Co., a recently organized subsidiary of the United States Cold

Storage Co. proposes to build a 22-story office, cold storage and warehouse building at Atlanta, to cost \$3,000,000.

The United States Cold Storage Co., at Kansas City, Mo., last year completed a \$1,000,000 addition bringing the total storage space to 6,000,000 cubic feet. The Scobey Fireproof Storage Co., San Antonio, announced plans in September for a \$500,000 cold and dry storage warehouse. Work went forward in Houston, Texas, last year on a \$6,000,000 rail and water terminal warehouse known as the Merchants & Manufacturers Building, to provide space for storage, manufacturing and display under one roof.

The Virginia Apple Storage, Inc., built a plant at Winchester, Virginia, to store 120,000 barrels of apples and to produce 15 tons of ice daily. The Merchants Terminal Corp., Baltimore, completed a \$1,000,000 cold storage plant.

Diversity of Mining Operations

HOW little the underground resources of this country are known is strikingly illustrated by the recent discovery and subsequent development of vast deposits of travertine, a building material of exceptional value in Manatee County, Fla. The property being developed by the Florida Travertine Corp., headed by C. A. Sheldon, New York City, is five miles east of Bradenton, and is said to cover approximately 68 acres. Through a contract with the Florida corporation the Johns-Manville Corp. will function as exclusive selling agents for this product.

Opalite, an amorphous silica, is being produced on an extensive scale near Rogers, Ark., by Corona Silica, Inc. Godfrey Marble Co., Atlanta, announced plans last summer for developing a travertine deposit near Cuthbert, Ga. The Virginia Alberene Co., New York and Schuyler, Va., through the Virginia-Tennessee Marble Co., a subsidiary, is quarrying marble at Friendsville, Tenn., and is developing property of the Ross-Republic Marble Co., Knoxville, Tenn.

The Duval-Texas Sulphur Co., Houston, announced plans late in 1929 for increasing the size of its plant in Duval County.

The Chicago, Wilmington & Franklin Coal Co., Chicago, went forward with coal mine improvements costing \$1,500,000 at Eccles, W. Va.

Major Projects Listed Only

THE foregoing are indicative of some of the major construction and industrial projects, and even these larger undertakings illustrate the diversity of Southern activity. Products of almost every description are required for their development, operation and maintenance. Hundreds of smaller projects have been omitted but the ones listed clearly show the trend of Southern industry.

In subsequent issues recent activity in flood control and reclamation work will be summarized.

\$1,000,000 Addition to United States Cold Storage Plant, Kansas City, Mo.



Western Electric's Mammoth Baltimore Plant

By RICHARD WOODS EDMONDS.

On January 1, 1929, E. B. Adams, construction superintendent for the Western Electric Company, arrived at Point Breeze to superintend the demolition of the Riverview Amusement Park that then occupied the site. On January 19 excavation for the cable plant was begun and on December 30 the first reel of lead-covered telephone cable was turned out. With construction gangs working all around the building, trucks rumbling and bumping past, concrete pouring into prepared roadbeds and, inside the building, gangs of riggers, electricians and other workmen hard at work installing more machines, pipe and electric lines and a variety of equipment, the crews of Baltimore workmen, trained in the short time available since the first machinery was installed, worked steadily at their jobs of turning out the big lead-covered cables.

With the exception of the four foremen brought as key men from the company's Hawthorne plant, all of the 2000 men and women already engaged in production in the partially completed, mammoth plant have been employed and trained here. Some idea of the magnitude of the project that is under way may be had from the fact that when completed, the plant will employ 30,000 and distribute an annual payroll of \$48,000,000.

The site, like the buildings, is under construction. The property at the tip of the narrow point formed in the confluence of the Patapsco River and Colgate Creek has been bulkheaded off, and will be filled by material dredged from both river and creek in making navigable channels. On the Patapsco side the

depth for docking ocean-going steamers will be 24 feet, and the depth on the Colgate Creek side will be 16 feet.

On November 10, 1928, the H. K. Ferguson Company of Cleveland was awarded a contract for all engineering and construction work for the initial project, and on January 15, 1929, the contract for all grading and excavating went to Potts & Callahan, of Baltimore. A considerable number of sub-contracts were awarded, and the splendid coordination of the work is indicated by the fact that besides the two buildings already erected, the cable plant and the insulated wire plant, with a total ground area of 14 acres, 900,000 cubic yards of dirt were removed; the power house,

equivalent in height to an eight-story building, with a stack standing 230 feet above ground, is far along towards completion; two miles of railway track have been laid; a mile of bulkheading has been completed; the road building is under way—and all of it well in advance of the schedule.

The cable plant is a little the larger of the two buildings. It is 500 by 660 feet in size, covering an area of 7.6 acres (9.3 acres gross floor area). Under it are 2800 piles and into the foundation went 6000 cubic yards of concrete, while 4500 tons of structural steel were used in the framework. The walls required 1,850,000 common and face brick. About 70 per cent of the floor consists of wood block, the balance being concrete. Modern construction requires a maximum of window space, and for the cable plant, about 135,000 square feet of glass were used, of which something over 65,316 feet are actinic, or the special glass that admits the life-giving ultra-violet rays in the sun's light, while diffusing the glare. Later on this building will be increased to 900 by 660 feet.

The insulated wire building was begun at a later date, and is not yet quite complete. Excavation started July 16, 1929. Its area is 6.4 acres. Spread footings support the walls, and, with much lighter machinery than that used in the cable plant, the reinforced concrete floor is poured on the hard clay foundation. The spread footings under the walls required 1407 cubic yards of concrete, while the framework took 1760 tons of structural steel. The walls required 461,000 brick. Actinic glass is being used here also.

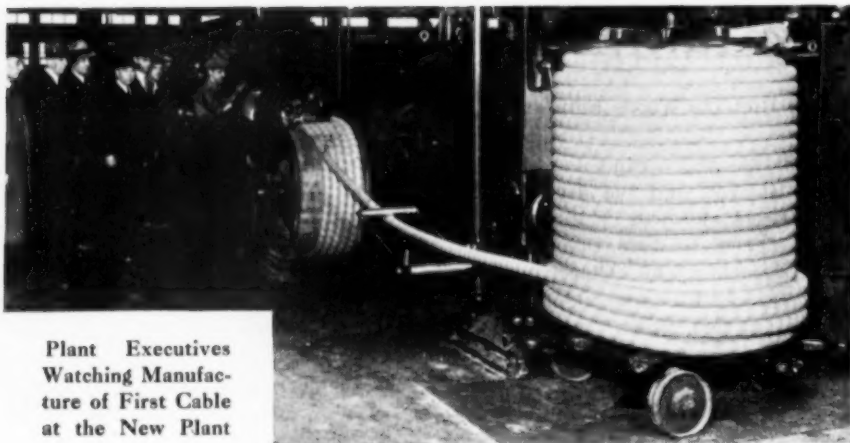
The roof design of both buildings was



Bulkhead Construction With Pile Drivers in Background



Architect's Drawing of Complete Point Breeze Plant of Western Electric Company



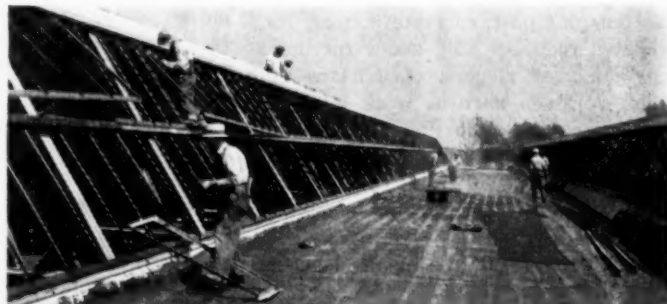
Plant Executives
Watching Manufacture
of First Cable
at the New Plant

worked out by Ferguson engineers and is expected to give uniform lighting over the entire floor space. Like the cable plant, this insulated wire building is designed to be doubled in size when demand justifies.

Work on the boiler plant started early in August. It was designed and is being constructed so that it can be used either as a boiler plant to supply process steam and heating only, as definitely decided for the first five years of operation, or also for generating plant purposes, should Western ever decide to generate its own electric requirements at Point Breeze.

Under the terms of a contract with the Consolidated Gas Electric Light & Power Company of Baltimore, the local power company will lease and operate

Erecting
Sash
in
Construction
of
Cable Plant
Roof



Shipping
Area in
Cable Plant,
Showing
50-Ton
Crane
and
Inspection
Mezzanine



Showing
Installation
of
Vacuum
Dryers
in the
Cable Plant

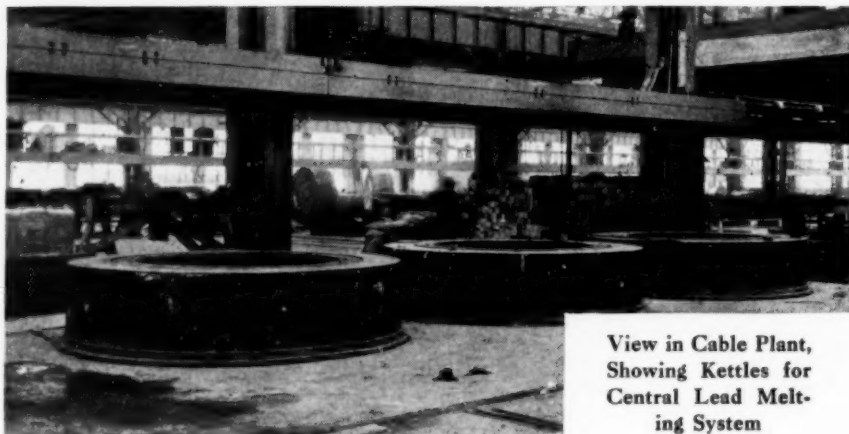
ported on 4 steel columns running to concrete foundations.

Each of these columns is a single rolled I-beam made by Bethlehem Steel Company and fabricated by McClintic-Marshall. The stack being set eccentrically on this square, one pair of columns carries more than half the weight. These two columns are 2½ inches thick and about 14 inches on flange and web.

the new boiler plant and will furnish all the lighting and power requirements from its generating plants for a period of at least five years. Estimated electric demand for the ultimate development will be approximately 35,000 K. W.

The roof of the plant will be 93 feet above ground, and the stack will tower up to a total height above ground of 230 feet. There are 4000 cubic yards of concrete in the foundation and 1500 tons of steel in the frame work. The intake duct for the condenser water is in the Patapsco River and the discharge is in Colgate Creek.

In equipping the new plant, three Erie



View in Cable Plant,
Showing Kettles for
Central Lead Melt-
ing System



Type of Equipment Used in Grading Operations. Included are Erie Steam Shovels, Caterpillar Tractors, Biehl Wagons, and La Plant-Choate Bulldozers

The largest beam in the building is a 30-inch I-beam, 18 inches across the flanges. This one also was rolled by the Bethlehem Steel Company.

Over most of the 180-acre tract work of some sort is under way. For a highway, the company deeded to the city a strip 80 feet wide and about one mile long, running past the group of buildings designed to occupy the site when fully developed. This strip is the continuation on the company's property of the Broening Highway being built by the city to the property and named for the present mayor. The trolley line parallels this highway on the side next to the buildings, and to avoid delays and danger of track crossings, eight underpasses are being built for the safe passage of employees from the highway to the buildings. Beyond the highway will be parking space ample for 3000 cars.

Plans are now being prepared for 750,000 square feet of buildings, six stories in height, where telephone apparatus will be manufactured. Contracts on this

Showing Bulkhead Under Construction, Patapsco River at Left and Colgate Creek at Right. The Cable Plant Is Here Shown Nearly Complete



Air View Showing Point Breeze Works of Western Electric Company. Cable plant in left foreground, back of it is the insulated wire building and steel structure of power house. This photo also shows the bulkheading progress

Curtiss-Wright Flying Service, Inc., Photo Division

will be let soon, and work started within two or three months.

At this early stage, and under the pressure of doing the necessary work at high speed, care is being taken to guarantee beautiful grounds. Before excavation started for any buildings, all top soil was carefully removed and piled on one side. This is now being replaced around the buildings, and a well-known landscape architect will supervise the planting of trees, lawns and shrubs.

Obviously many supplies will be ob-

tained in Baltimore, and when this bill for supplies is added to the annual ultimate payroll of \$48,000,000, the significance of the plant to the city begins to become apparent. The 30,000 employees will mean something like 100,000 souls directly dependent on the plant for their livelihood; and practically all of them will live in Baltimore. Besides these, the local labor occupied with the needs of the plant will be considerable, and the butchers, bakers and candlestick-makers

needed to serve that population will be another large addition. Edgar S. Bloom, president of the Western Electric Company, estimated some of these as follows:

Butchers, bakers, grocers and other retail dealers and salespeople.....	6000
Domestic and personal service, including household servants, barbers, boot-blacks, boarding and rooming-house keepers, etc.....	9000
Civic service employees—Federal, State and City, including fire, police, etc....	1370
Public utility employees.....	1500
(This includes 500 street railway employees)	
Wearing apparel—tailors, dressmakers, milliners, clothing factory workers, etc.....	4000
Doctors, dentists, lawyers and the clergy.....	870
Teachers.....	850
Automobile service—garages, service and filling stations, etc.....	500
Plumbers, gas and steam fitters and other pipe workers.....	350

The grand total of the population increase that Baltimore will receive as a

result of the ultimate development of this plant has been set at 180,000.

Besides this Point Breeze development, the Western Electric Co. is planning to increase its Hawthorne works in Chicago and its Kearny plant in New Jersey. The total budget for expansion in 1930 is \$55,000,000. This will provide 2,500,000 square feet of new floor space. A large part of the total expenditure will go for the costly machinery and tools used in the manufacture of telephones, cable and other communication equipment.

\$1,366,000 Bonds Offered

Corsicana, Tex.—Bids will be opened January 27 by the Commissioners' Court of Navarro County for the purchase of \$1,366,000 bonds of Consolidated Road District No. 1, these bonds representing the unsold portion of an issue of \$2,278,000. The interest rate is 5 per cent.

Curtiss-Wright Flying Service, Inc., Photo Division

Nation's Road Builders Prepare for \$2,000,000,000 Highway Program

At Atlantic City Convention and Show They Accept Challenge to Meet Motor Transportation Demands on Economic Basis—Seek Wholehearted Cooperation of Officials, Engineers, Contractors, Machinery Builders and Material Firms

[Special Correspondence Manufacturers Record.]

Atlantic City, N. J., January 18.

PRACTICALLY every type of road-building and maintenance machinery and materials for constructing all kinds of roads were exhibited at the twenty-seventh annual road show and convention of the American Road Builders' Association held this week at Atlantic City, in the world's largest convention hall. These many exhibits and displays by the various states and governmental departments as well as foreign countries, and a small scale exposition of airport facilities, filled every available square foot of exhibition space on the main and street floors of the auditorium, overflowed into the corridors and some more determined exhibitors not to be turned away showed their products on the boardwalk and on the seashore and vacant lots nearby. The show managers report the sale of 181,000 net square feet of floor space, exclusive of aisles, which is said to exceed by 2000 square feet the space sold at the 1929 show held in the municipal auditorium and adjacent buildings at Cleveland. A total of 373 exhibitors had floor space, compared with 413 exhibitors at the preceding show, but it is pointed out that more than 80 applications were turned down following the sale of all exhibition space. The exhibits were brought to Atlantic City in more than 500 freight cars.

Placing of exhibits began on January 3, from which time until the show formally opened on January 13, an army of men worked night and day assembling the exhibits. It is not enough that huge concrete mixers, crushers, trucks, tractors and rollers should be displayed so that interested engineers and contractors may study their features and analyze their capabilities; the machinery must be in actual operation to show readily its characteristics and support claims as to its respective superiority and advantage over other types.

The tidy appearance of the exhibition floors, the ease with which big units swung into operation and the provision of adequate floor space for display to best advantage of each company's products gave no hint of the almost hurecanean efforts put forth to bring about such smoothness of operation and orderliness. Each exhibit had to be routed and moved into place in its proper order. But thorough planning ironed out the difficulties, and when the sessions opened at 10 o'clock Monday morning, almost without exception all of the moving exhibits swung into operation with clock-like precision.

Show and Convention Assume International Aspect

The total registration of delegates to the convention exceeded 20,000, and they came from widely scattered sections of the country. In addition to delegates from each of the states official representatives of 34 Central and South American and foreign countries registered. Judging from the interest manifested by these foreign representatives, not only in the displays of machinery and materials but in the convention sessions, the show and convention have taken on a distinctly international aspect. Only a few years ago the Pan-American division of the association was organized. Under the direction of Octavio Dubois, presi-

dent of the National Highway Commission of Mexico, the influence of the division has been a moving force in fostering development of improved roads in the Central and South American countries and the islands of the West Indies. Thus, this year representatives of practically all the republics to the south of us took part in the convention. What is more, a big delegation from Canada attended. Representatives from England, Germany, Finland, Spain, France, Russia, Italy and other countries were also in attendance. Major Farny, of Morristown, N. J., who last year made an extensive tour of foreign countries, reported the naming of honorary representatives in various foreign countries in

what is known as the European Division of the association. The following countries are now members of the section: Australia, England, France, Germany, Orange Free State of Africa, and Spain. Reports to the convention indicate a growing interest in American road-building methods in foreign countries. The establishment of special courses in highway engineering in several outstanding foreign colleges last year was reported.

Building Highways and Good Will

Delegates from Pan-American countries emphasized the friendly relations that are being built up among the countries of the two Americas because of the activities of the association in fostering the development of systems of arterial highways to ultimately connect every country of the three Americas—North, Central and South. Efforts of the Bureau of Public Roads in lending engineering assistance and in facilitating inspection of road systems, methods of construction and administration in this country were highly commended. The American highway engineer and road builder are pictured as playing a leading role in improving international relations and building up international good will. Considering the difficulties under which such construction activities are pursued these Southern neighbors are working wonders in building year-round highway links over extensive mileages, and motor truck and bus lines are in a big way supplementing present modes of transportation.

Cities to Fight for Next Show

While decision as to where the 1931 show will be held will not be determined until the annual meeting of the association in May, representatives from many cities were on hand to press their respective claims. Atlantic City will naturally contest any effort to withdraw the show to another city. Cleveland will vigorously seek to again have the show staged there, and indicates its willingness to erect such additional structures as are needed to house any and all exhibits that cannot be housed in the main auditorium. Houston, Texas, announces it has available the Democratic Convention Hall and will erect any additional structures required to adequately house the show. Other

Southern cities that expressed a desire to "land the show" include: Galveston, Dallas, St. Louis, Kansas City and New Orleans. Also Toronto, Canada, is a contender for the next show.

Movement Launched for Biennial Shows

One group of exhibitors injected a new note with a suggestion that the road show be held biennially rather than annually. It was pointed out that the shovel and crane manufacturers alone expend \$175,000 to \$200,000 for exhibits and auxiliary expenditures in connection with the annual show. Therefore, the question was raised as to whether such a big expenditure was justified. Development of machinery is not progressing at such a pace as to justify yearly slows for the display of new models, said one exhibitor. However, weighty arguments were presented in support of the present plan of holding annual shows, and these are summarized as follows:

The road show and convention is in reality a scientific and educational display, depicting and chronicling developments in connection with a \$2,000,000,000 industry. Each year it focuses attention of the American public on the efforts of engineers, contractors, road-building officials and manufacturers of machinery and materials to solve America's road building problems and to promote the construction of the nation's highways on a sound economic basis. Greater expenditures will be necessary annually to fill the demands for highway transportation facilities if motor vehicle operation is not to be seriously affected; in fact, even now traffic paralysis impedes in many localities. What we have expended in the past for road-building is small compared with the cost of imperatively needed improvements to facilitate nation-wide motor vehicle transportation with economy and safety. Efforts to divert funds from license and gasoline tax revenues threaten to hinder road-building operations. Every effort is justified in keeping before the public the need for greater expenditures for such facilities and to promote a willingness to provide funds either through taxes or bond issues as required for the satisfactory expansion of the country's road program. Any slackening of effort through biennial shows may result in diminished enthusiasm and lack of support by both officials and the general public. The continuity of effort as exemplified by annual shows on a big scale is therefore sound promotional work. The demand for space at the annual shows is now such as to exceed the capacity of any permanent exhibition structure, and holding the show every other year may still further increase demands for space. The attendance at the convention sessions is markedly influenced by the attraction of the exhibits. It is feared that the elimination of annual shows and holding conventions each year may seriously affect attendance at the sessions. The need for moving the show from one section of the country to another was vigorously stressed. Indications are that exhibitors will insist upon holding the next show in some part of

the country not heretofore chosen. The whole matter will be thoroughly reviewed by the Board of Directors of the Manufacturers Division of the association.

Power Machines Predominate

If one thing stood out above another in the varied display of road-building equipment it was the predominance of mobile and powered units. Not a single piece of equipment designed for horse or mule drawn use was featured. It is apparent we are in the twilight of mule power in road-building operations and that horsepower—not horse flesh—from internal combustion engines operated by all kinds of fuels, electrical and air driven units is now the order of the day. These new types of power units are also largely supplanting steam engines and only a few tools fitted with steam boilers were exhibited. On the other hand, many of the machines not only are equipped with a major power unit but with individual power drives for auxiliary equipment. On some road-building equipment a single gasoline engine is used to furnish motive power, while another is used to compress air for dumping or for operating cutting blades, drag lines, shovel attachments, cranes, winches, etc.

Steady Refinement Noted in Road-Building Machinery

There has been in recent years a steady refinement in road-building equipment. Not many years ago such tools were for the most part products of the foundry. Now they represent the acme of high class machine shop production. Not only has there been an improvement in workmanship but better materials are used generally. The aim now is to produce equipment that will give the utmost in service and output with the minimum of attention. The trend to make such equipment foolproof is quite apparent. Automatic sure-fire lubricating systems have supplanted the hit-or-miss method of oiling and greasing so long practiced with dire results. Also, bigger and more sturdily built power units are being installed, thus reducing breakdowns, insuring longer life and greater daily output without forcing. A noteworthy development is the production of machines in a great variety of sizes. Special wear-resisting steels are being extensively used. For the new operations that have been introduced in modern road-building methods new and efficient types of tools have been developed.

Varied New Developments Noted

Roller and ball-bearings are extensively used on the new machines. Concrete mixers, once a quite standardized product, are now made in a variety of sizes and shapes and equipped with

numerous devices to insure perfection in mixing concrete. Materials, once gathered by hand shovels from material piles, are now removed from car and barge by bucket cranes or belt conveyors and stored in steel bins, which may be moved from job to job. These bins are fitted with weighing attachments and valves for quickly loading trucks and industrial cars. Even new style pumps that require no priming serve the road-builder. Portable lighting units of several different types are available to speed night construction operations. Steel forms and shapes are taking the place of wood forms formerly assembled on the job.

Mechanization of Road-Building Units Keeps Costs Down Despite Higher Wage Scale

It is apparent that the entire road-building industry is being mechanized on a scale commensurate with the introduction of power in our efficiently operated industrial plants. Unquestionably power is to be a more and more important factor in the construction of highway facilities on an economic basis. Accurate figures are available to show that in an eight year period, 1921 to 1929, the unit price of all finished construction in road work has been steadily decreased, despite an increase in the average labor costs each year. What is more it would be practically impossible to pursue so formidable a road-building and paving program as is this year proposed if the industry were not so widely utilizing power operated units, for it would be impossible to divert from other activities sufficient labor to carry forward the work if ordinary methods were used.

Need for Intelligent Buying by Contractors Emphasized

Speakers at the various convention sessions emphasized the need for greater intelligence in purchasing road-building equipment, pointing out that mere bigness of units would not insure success for the individual contractor. There is a great need for the most careful coordination of all units comprising a road-building plant for a given type of pavement. Attention must be given not only to cutting down the time lost through bad weather and major, unavoidable delays, but to take the slack out of all operations with a view to getting maximum production of all units as based on the key unit on each job. Contractors were vigorously criticized for inefficiency in production methods, and were urged to get on a sound basis to speed up the country's road-building program and make possible construction of such facilities on a more economic basis, to insure continuance of public support and its willingness to pay for such improvements.

Kentucky Progress Commission Recommends Doubling of State-wide Development Efforts

Kentucky has almost incomparable resources and a model law for advertising its advantages as the basis for statewide development, according to the Kentucky Progress Commission in its report to the 1930 General Assembly. With the model law and vast resources justifying large investments, the Progress Commission's report recommends "a substantial increase in the annual appropriation for the next two years." The 1928 legislature appropriated \$50,000 a year for the current biennial period. The Progress Commission recommended that this be increased to \$100,000 a year in its itemized report to the budget commission.

The introduction states that "the non-partisan Kentucky Progress Commission of 12 members was appointed without salary to formulate and put in process a plan to make a general study of and to advertise and publicize Kentucky's resources, advantages, attractions, geographical location, transportation facilities, American-born labor supply, developed and potential electrical power, favorable tax law offering advantageous locations for industries, its varied and fertile farming lands," its charm for tourists and other assets. There are appended to the report 33 sections of statistics gathered as the result of the commission's study of these subjects.

Thirty-two major surveys made by the commission are outlined in detail, and the results of several are developed in sections devoted to industrial conferences and activities, agricultural development, publicity methods employed and the operations of the Kentucky Progress Association, organized by the commission under direction of the legislative act.

Under "Tourists a Quick Asset" the commission sustains the claim that cumulative results of all organizations in the state working for the induction of tourists have achieved some interesting results:

"Mammoth Cave, which attracts thousands of tourists, showed a gain over 1928 of 12 per cent, the Mammoth Cave National Park Association reported. Old Fort Harrod at Harrodsburg, Pioneer Memorial State Park, registered 32,259 tourists in 1929, with only about one-third registering, showing an increase of 65 per cent over 1928, the State Park Commission reported. Middlesboro reported that 20,000 tourists paid 50 cents each during the first four months to drive up Pinnacle Mountain over the new highway opened June, 1929. The automobile club at Paducah registered 10,585 tourists during 1929, only a small per cent of all visitors."

Kentucky's industrial assets are listed

in paragraphs that cite industries which lead the world, those which lead the United States and those which lead the South. Advantages offered for further industrial expansion are enumerated, including 36 undeveloped minerals, ample transportation facilities, favorable taxes, dependable labor supply, location, etc.

Kentucky's 2,553,000 population is almost entirely native-born Anglo-Saxon, with only 1.3 per cent foreign born and 9.8 per cent negroes.

The per capita wealth for ten years showed 91 per cent increase in real property and improvements, 33 per cent in manufacturing machinery, 614 per cent in intangible personal property and 3027 per cent in bank deposits reported. Value of manufactured products increased 49.9 per cent in four years. Banking resources over a long period are shown.

Kentucky has the second lowest industrial tax rate in the Union and the value of farm lands is the highest in the South. Percentage of increase in production of all agriculture is given, together with value of live stock, timber resources, employment in industry, new industries chartered, railroad facilities, highway improvements, motor transportation facilities and air fields.

Kentucky has more miles of rivers than any other state, with 1200 miles of navigable streams. The state is bounded by 655 miles of the Ohio River, with more than two-thirds of the entire Pittsburgh-to-Cairo mileage now canalized.

The report concludes with statistics on education, insurance rates, fish and game, newspapers, telephones, state institutions and the migration of native-born Kentuckians to other states as a basis for industrial development plans.

\$30,000,000 Cotton Agency

Washington, D. C.—Articles of Incorporation have been filed in Wilmington, Del., for the American Cotton Cooperative Association, a \$30,000,000 central sales agency for marketing cotton, sponsored by the Federal Farm Board. The work of drafting the charter of the organization was handled by a committee headed by S. L. Morley, Oklahoma City.

\$6,230,000 Bond Election

Tulsa, Okla.—The City Commission has called an election for February 4 on a bond issue of \$6,230,000, to include the following items: Street improvements,

\$1,150,000; grade separation and approaches, \$700,000; bridge, \$750,000; sanitary sewer, \$300,000; storm sewers, \$1,000,000; parks, \$500,000; municipal airport, \$650,000; traffic signals, \$40,000; fire stations and a fire signal system, \$450,000; municipal hospital, \$150,000; municipal hospital in negro section, \$60,000; convention hall, \$60,000; public buildings, \$170,000; public library, \$75,000; detention house, \$50,000, and overpass, \$150,000. Dan W. Patton is mayor, and K. R. Teis, city engineer.

Swann Research, Incorporated, Formed at Anniston

Organization of Swann Research, Inc., to coordinate and unify development and research work of the Swann Corp., large chemical producing concern of Birmingham, Ala., has been announced by Theodore Swann, president of the latter corporation. All patents on products and processes of the Swann Corp. and its subsidiaries are to be handled by this new organization, which has a capital of \$250,000.

Through its various subsidiaries the Swann Corp. has discovered and developed numerous processes, the rights of many of which have been sold to European interests. Countries acquiring these foreign rights include Great Britain, France and Italy, negotiations now being under way for sale of such rights to German interests.

Among the subsidiaries of the Swann Corp. are the Federal Phosphorus Co., Federal Abrasive Co., Federal Carbide Co. and Southern Manganese Corp., all of Anniston, Ala.; the Jax Plant Food Co., Naphthalene Products Co. and Birmingham Glass Works, of Birmingham, Ala.; the Bruff Chemical Co., Hoopeston, Ill., and the Provident Chemical Works, St. Louis, Mo.

Stockholders of the Swann Corp. last November increased the authorized capital of the corporation from 120,000 to 2,100,000 shares, of which 100,000 shares may be preferred stock. Common stock is of no par value and is divided into 1,700,000 Class A and 300,000 Class B shares. Several water power sites in Tennessee owned by the corporation are said to afford a potential development of commercial power in excess of Muscle Shoals.

Developments of the Swann subsidiary research departments now consolidated into the new Swann Research, Inc., are an electric furnace method of producing phosphoric acid and of ferro-phosphorus as a by-product; improvement in quality of aluminous abrasives and silicon carbide; spray-congealed trisodium phosphate; spray-dried calcium and sodium salts of phosphoric acid; diphenyl and diphenyl derivatives.

SCHWAB HOPES TO HAVE WORLD'S LARGEST STEEL PLANT AT BALTIMORE

Spending \$1,000,000 a Month at Sparrows
Point Operations of the Bethlehem
Steel Company

"If I didn't believe business was on the upgrade again I could easily halt the expansion program for my own business.

"I am spending a million a month at Sparrows Point.

"That's for expansion to meet the demands of business of the immediate future."

Thus spoke Charles M. Schwab, Chairman of the Board of the Bethlehem Steel Company, in the course of an address given during a dinner in his honor at the Phoenix Club in Baltimore recently. And he added:

"I have no doubt a lot of Baltimoreans thought I was crazy when I came here 20 years ago and said I was going to spend \$50,000,000 here on a steel plant.

"Well, it's run considerably more than that during the time we've been here, and our present \$25,000,000 program is a good evidence that we're not quitters.

"I have no hesitancy in stating that it is my dream to have the largest and most wonderful steel plant in the world right here in Baltimore."

Contract for 5-Mile Seawall

New Orleans, La.—The Board of Levee Commissioners of the Orleans Levee District has awarded contract to the Orleans Dredging Company of this city, for the construction of the proposed Lake Pontchartrain seawall from West End to the Industrial Canal, a distance of about 5 miles. The cost will approximate \$2,000,000. W. B. Davey is the acting chief engineer and E. C. Hyatt, engineer in charge of the work.

\$500,000 Chemical Plant Addition

Houston, Tex.—An improvement program to represent a cost of about \$500,000 has been announced by the Texas Chemical Company at Harrisburg. The company's present investment is said to be \$2,500,000. Upon completion of improvements the number of employees will be largely increased. The company manufactures bone black, sulphuric acid, etc.

\$200,000 Stove Plant Addition

Chattanooga, Tenn.—Plans are being made by the Tennessee Stove Works to build an additional enameling plant here at a cost of \$200,000, according to Ben M.

Rawlings, representative. The plant building will be one story, of face brick construction with steel windows and will be equipped with a 240-kilowatt continuous electric enameling furnace. The plant will operate in connection with the present stove works and will employ 150 to 200 men.

\$84,000,000 CONSTRUCTION AND DEVELOPMENT PROGRAM IN ARKANSAS

Plans Call for Extensive Railroad and Public Utility Improvements

That more than \$84,000,000 will be expended this year in Arkansas for construction and for other improvements was revealed at a recent conference held at Little Rock and sponsored by the Little Rock Real Estate Board, with the cooperation of the Kiwanis Club. Of the entire amount cited by the 200 officials of business concerns and representatives of the State and Federal governments and municipalities, who attended the conference, the largest expenditure was the \$38,938,000 reported by Governor Harvey Parnell for the state.

Next in importance was the \$11,277,500 program of the Federal Government as announced by Wallace Townsend, Republican National Committeeman. This figure includes \$1,500,000 for an Army and Navy Hospital at Hot Springs; \$1,250,000 for the Little Rock Federal Building; \$4,800,000 for highways; \$3,425,000 for Mississippi Flood Control; \$100,000 for field surveys and other amounts for various minor projects.

A total of \$8,000,000 will be expended by the Arkansas Power & Light Co., F. M. Wilkes, Pine Bluff, general manager of the company, indicating that of the total, between \$3,000,000 and \$4,000,000 will be spent on the Ouachita River hydro-electric developments, with a \$2,000,000 expenditure for new transmission lines, substations and distribution systems.

John Cannon, vice-president of the Missouri Pacific Lines, stated that \$5,500,000 would be spent for improvements in Arkansas by the railroad, \$4,000,000 to be used for major developments and \$1,500,000 for other projects. Operating expenses of the railroad, which aggregated \$29,000,000 during 1929, are expected to reach the same figure this year.

The Rock Island Lines, H. G. Clark, vice-president, plans improvements in the state to cost \$3,586,000, the program including ballasting from Forrest City to Memphis, new rails from Forrest City to Brinkley and from Lonoke to North Little Rock; crossing improvements, bridges and flood protection. Cost of tie

and timber for the work will be \$1,554,000.

About \$5,000,000 will comprise the 1930 Arkansas budget of the Arkansas Natural Gas Co., according to D. W. Harris, general manager, Shreveport, La. W. E. Gosdin, division manager of the Southwestern Bell Telephone Co., announced a \$2,225,000 program, which includes new buildings in North Little Rock and in at least two other cities. The Southwestern Gas & Electric Co. is expected to spend \$1,500,000 during the year. Contemplated programs of the Cotton Belt the Missouri and North Arkansas Railroad, involve \$1,500,000 and \$750,000 respectively.

Improvements planned by the city of Little Rock are two fire stations, \$300,000; municipal airport, \$200,000; general hospital, \$55,000; parks, \$35,000; sewer survey, \$15,000. A \$2,000,000 program reported for the Southwest Dairy Product Co. includes erection of a \$500,000 milk plant. Dwelling construction will be undertaken by the Justin Matthews Co. at a cost of \$1,000,000, and by the Sun Building and Development Co. at a cost of \$500,000.

The Arkansas Democrat will make building and equipment improvements involving \$300,000 and the Arkansas Foundry Co., improvements to cost \$75,000. J. J. Harrison, vice-president of the Home Insurance Companies, stated that his company planned investments of \$2,500,000 during the year.

\$5,500,000 Expenditure Planned in Johnson City District

Johnson City, Tenn.—More than \$5,500,000 is expected to be expended in Johnson City and vicinity during 1930 for construction of buildings, industrial plants, public utilities and for roads. Among the projects are: \$1,000,000 expansion program at the Mountain Branch Soldiers Home; roads costing \$1,000,000 to be built by the State; \$225,000 girls' dormitory at the State Teachers College; \$1,230,000 for work including \$420,000 for schools, \$60,000 for fire stations, \$400,000 for water supply and pipelines, \$110,000 for street paving, \$90,000 for sewers and \$150,000 for railroad viaduct approaches; \$500,000 for county roads leading out of the city; \$1,000,000 for expansion of the facilities of the Tennessee Eastern Power Co.; and a \$250,000 addition to the Model Mill Co.

In addition, mention should be made of expansion of the plants of the American Bemberg and American Glanzstoff corporations between Johnson City and Elizabethton, the hydro-electric project planned by the Holston River Power Co., the airport proposed for Johnson City, and the normal amount of small business and residential building activity.

LETTERS FROM OUR READERS

An Appreciated Commendation

S. P. Gentry,
Manufacturers Agent,
113 Courtland St. S. E.,
Atlanta, Ga.

REPRESENTING:
The Seneca Wire & Mfg.
Company,
Fostoria, Ohio.
Round Iron & Steel Wire for
Stapling and Binding.

Fibre Specialty Mfg. Co.,
Kennett Sq., Pa.
Fibre, Steel Clad and All
Steel Material Handling
Receptacles.

E. H. Titchener & Co.,
Binghamton, N. Y.
Wire Shapes and Specialties.

Diagraph Stencil Mch. Co.,
St. Louis, Mo.
Stencil Cutting Machines,
3 Types
Shipping Room Supplies

Angle Steel Stools Co.,
Plainwell, Mich.
Steel Stools, Chairs,
Tables, Factory Equipment.

Editor Manufacturers Record:

I quite agree with your assertion that the large amount of Southern construction and industrial activity planned for 1930 is impressive and I desire to take this opportunity of telling you that I feel that you and your wonderful publication have had no small part in getting the eyes of capital properly focused on those states situated south of the Mason and Dixon line. I enjoy to the fullest the contents of each issue of the MANUFACTURERS RECORD and find it quite valuable to me in my sales efforts.

Accept my sincerest admiration for the splendid work you are doing for the South.

S. P. GENTRY.

Bright Outlook for Construction and Industrial Activity in Knoxville and Vicinity

The W. S. Murrian Company
Manufacturers' Direct Representatives
Railway and Industrial Supplies
1509-1510 The General Bldg.
Knoxville, Tenn.

Editor Manufacturers Record:

We are in accord with you that Southern construction and industrial activity for 1930 is impressive.

As to the outlook in Knoxville and immediate vicinity, we are already assured of a good business year. Building and construction work for 1929 amounted to about \$5,500,000. The major part of this building was in large and permanent construction, including a great deal of municipal work such as sewer extension, street widening, paving, office buildings, camp garages, modernized store fronts, and such buildings as has made Knoxville's substantial expansion more noticeable than in any previous year.

The forecast for 1930 reveals that there will be no slacking in this improvement program. There will be a greater building program at the University of Tennessee than in any previous year; also a \$1,000,000 bridge across the Tennessee River at Knoxville, and the completion of a 100 feet thoroughfare through a business section of the city.

The Smoky Mountain National Park Commission has purchased 150,000 acres which will be turned over to the Government as part of the National Park area to be established in this vicinity.

Although during the summer months commercial activity dropped below the figures for the corresponding period of 1928, the last two months of 1929 showed a gain over the last two months of 1928.

Our best advices are to the effect that the purchasing power of our farmers is

greater than it has been for three years. Diversification and the increasing volume of tobacco at this market are largely responsible. This is our banner year for volume of tobacco over our local floors, and there seems to be no doubt that Knoxville will lead the entire United States in price average, as it did two seasons ago.

By way of a summary, it might be said that in those respects in which Knoxville business slumped in 1929, it was not to a greater degree, or even as great, as the average Southern city for the same period. Industrially speaking, Knoxville has fared well, most of our mills having maintained average operations, and some of them recently having worked extra shifts to take care of a steadily increasing business.

You have already published data concerning new developments in this vicinity by the United States Aluminum Company, Universal Exploration Company, (United States Steel Corporation), American Limestone Company, American Bemberg Corp., Enka Corporation and others.

JOHN H. MURRIAN.

REPRESENT:
Paxton Mitchell Co., Omaha, Neb.
Flannery Bolt Company, Pittsburgh, Pa.
Vanadium Alloys Steel Co., Latrobe, Pa.
Mahr Manufacturing Co., Minneapolis, Minn.

Better Business Prospects Indicated for Charlotte Area

Thomas H. Haughton,
Agent,
902 First National Bank Bldg.
Charlotte, N. C.
Home Office
Independence Building,
Philadelphia, Pa.
Chas. H. Holland, Pres.

Editor Manufacturers Record:

Here is an outline of a few new construction contracts in Charlotte that will probably be let during the year 1930.

A large theatre is being planned and

will probably be under construction in the next three months.

The City of Charlotte will soon let contract for a large steel and concrete railway underpass at the intersection of North Tryon and the Southern Railway.

The city proposes to spend a large sum on extension of water mains and additional lines to the Catawba River. Work will probably get under way some time during the late spring or early summer.

Several warehouses are being planned for wholesale distributors and a few small manufacturing plants who have heretofore been renting are planning to build their own plants some time during the next six months.

There is very little residential construction going on in this vicinity with the exception of a few five-room cottages. However, there is talk of this type of work picking up as the year advances, due to the low cost of labor and materials at this time.

Credit conditions are somewhat better than they have been and money seems to be plentiful for loans where good security is given. Several of the large life insurance companies, which have recently stopped loaning money on residential and apartment property in Charlotte and vicinity, are resuming this type of loans.

THOS. H. HAUGHTON, JR.

REPRESENT:

North Western Expanded Metal Co., Chicago.
Kewanee, Private Utilities Co., Kewanee, Ill.
Cutler Mail Chute Co., Rochester, N. Y.
Frederick Iron & Steel Co., Frederick, Md.
Nagel Engine & Boiler Works, Erie, Pa.
National Steel Fabric Co., Pittsburgh, Pa.

Personal Application to Business Will Determine 1930 Prospects

Graybar Electric Company, Inc.,
Graybar Building, New York.
Sixth and Cary Streets,
Richmond, Va.

Editor Manufacturers Record:

We feel our business for 1930, due mainly to the diversity of our markets, will be good. If sales in our appliance and radio lines fall off, it will be more than offset by increased business from utility construction and residential and commercial building made possible by cheaper money. However, 1930 will be only so good as we make it by our individual initiative and application to our particular jobs.

J. H. PEARSON, JR., Manager.

Expects Increasing Business After First Quarter

The Baker Cork and Tile Company, Inc.,
Flooring Engineers and Contractors
Authorized Distributors of Bonded Floors
1700 Eye Street Northwest,
Washington, D. C.

Editor Manufacturers Record:

Our business keeps us in contact with the building trades industry throughout the South Atlantic States, that is from

Maryland to Georgia, and we are in constant touch with the larger building operations in that area.

In our opinion business fundamentals are in sound shape and there is a great amount of construction work which should and undoubtedly will be done during 1930. The high money rates of the past year due to diversion of money into stock market speculation was slowly strangling building activities and the release of this credit should act as a real stimulant to legitimate building enterprises. There may be a period of hesitancy for the next two or three months but we confidently anticipate a restoration of confidence during the first quar-

ter, followed by continually increasing activities throughout the balance of the year.

We feel it is a time when business executives can, with confidence, proceed in an aggressive manner. Only a lack of confidence in the situation will keep us from another profitable year in 1930 and in our opinion American business men will assert their confidence by definite action in the very near future.

Your editorials outlining the situation from time to time are to be commended.

CREED W. FULTON, President.

REPRESENT:

The Bonded Floors Co., Inc., Philadelphia.
The Metal Construction Co., New York.

Heartening Commendation

Recently the MANUFACTURERS RECORD had occasion to send out a letter to a number of its subscribers discussing, among other things, the attempts of communism to get a foothold in the South. This particular letter brought forth many replies commending the work to which the MANUFACTURERS RECORD has been devoted in disseminating information about the South through its editorial and news columns always looking to the upbuilding of the whole region from Maryland to Texas. We cannot attempt to publish all of the letters received but quote brief extracts which illustrate the deep appreciation of our readers.

G. M. ALEXANDER, president of the Monongahela West Penn Public Service Co., Fairmont, W. Va., states that while having been a reader of the MANUFACTURERS RECORD for a long time, "I have become more than ordinarily interested in it in recent years." And further:

"This I have found to be due primarily to two things: My interest (selfish if you choose to call it such) in the advancement of the territory the MANUFACTURERS RECORD is seeking to develop, and second, its sane and forceful editorial expressions on aspects of political and economic problems affecting industry.

"Through the use some executives of our company make of your excellent magazine, I have had occasion to observe its industrial, construction, financial and market departments, and it is my belief they are highly valuable in their respective fields.

"We are entering upon a new year that gives evidence of ushering in a great new industrial era in the South."

WM. STEEN, general manager, Creosoting Division of the Long Bell Lumber Co., Shreveport, La., is in agreement with the MANUFACTURERS RECORD's effort to combat communism, stating "several of us in this particular office are using it to advantage. It is doing a worthwhile work for the whole country and especially for the South. Every issue brings us something helpful or inspiring."

J. W. HARRELSON, director of the Department of Conservation and Development of North Carolina, Raleigh, referring to some statements made to him in

a letter discussing the progress of communism in America, replies:

"Your letter briefly states in an admirable manner the activities of the bolsheviks in America and I have taken the liberty of making a few copies of your letter for distribution to friends of this department."

D. L. McDONALD, engaged in water development work, writing from his home at Amarillo, Texas, says:

"I agree with you in your statement that the MANUFACTURERS RECORD is a little unlike any other newspaper in this or any other country. I like the plain, straight-from-the-shoulder way in which you hit things and always enjoy reading the RECORD. Have been reading your articles on 'Communism' and believe every word you say regarding this matter. I nearly always take the RECORD home where it is read by my family."

Mr. McDonald is only one of many subscribers of this paper who take it home in order that the members of their family may read it. He gives hearty commendation to the effort of the MANUFACTURERS RECORD to awaken the people of this country to the tremendous campaign which Russia is carrying on in behalf of communism and to which many of our people seem to be wholly blind.

WM. B. REILLY, president of the Wm. B. Reilly & Co., Inc., New Orleans, importers of coffees and teas, said:

"There may be somewhere a publication that is as uplifting and instructive and constructive, and as clean in every sense of the word, as you make yours, but it has never been my good fortune to see or know of it."

W. L. GROOM, president and general manager, Tar River Lumber Co., Inc., Rocky Mount, N. C., said:

"We have taken your paper at least 20 years, and have recommended it very highly to our neighbors. It is the best business guide in the way of a paper in the South from our viewpoint.

"We agree with you in everything you have said about Communism, and every American citizen regardless of the position he holds should not leave anything undone to keep them and their influence away from our people. We have too much of it now. But with the cooperation of our people we are equal to handle the situation if we but work together.

"We trust that you will be able to con-

tinue to give us the real facts for the best interest of the country, as you have been doing for many years."

T. M. GATHRIGHT, chairman, Board of Supervisors, County of Alleghany, Covington, Va., realizing that the spread of communism is serious in this country, asserts that it is very unfortunate the problem is not handled more vigorously by our government, and adds:

"I am always interested in what you have to say along this line. I have been a constant subscriber to the MANUFACTURERS RECORD, either individually or through the firms I have been connected with since 1891. I wonder sometimes if I am not your oldest subscriber, and certainly I believe I am your most interested subscriber."

Mr. Gathright closes his letter with the statement that many developments are going on at this time in the Covington area.

W. E. DUNN, JR., secretary, Southern Metal Trades Association, Atlanta, Ga., believes that the communistic activities propagated by Russia are a menace not to be ignored, and he states:

"The writer appreciates what you are doing to expose this propaganda through the columns of your valued journal, and we agree that the MANUFACTURERS RECORD is different from most any other newspaper in the country. We haven't been without it since we first read its columns about 15 years since, and we don't expect to be in the future."

HENRY A. MENTZ, president, Henry A. Mentz & Co., Inc., engineers, Hammond, La., reminds us that he has been a reader of the MANUFACTURERS RECORD for at least 20 years and that it has been a great inspiration. He writes:

"What you say about communism, and what you have said from time to time, editorially and otherwise, in your splendid magazine is all too true. It will certainly be in order to round up these foreign agitators and deport them."

In referring to business conditions, Mr. Mentz comments as follows:

"The Wall Street crash, as you indicate, is really a blessing in disguise and, feeling the pulse of our sphere of activity in this section, we believe that 1930 will originate many municipal, public and private works which have so long been held in abeyance."

N. E. HEWITT, American Vigilant Intelligence Federation, Chicago, writes:

"Permit me to congratulate you upon the excellent work the MANUFACTURERS RECORD has been doing in combating communism in the South."

H. J. SCHWIETERT, general agricultural agent of the Illinois Central Railroad Co., with headquarters at Chicago, who has been a reader of the MANUFACTURERS RECORD for the past 20 years, in a letter to the editor says:

"I have found it most helpful to me and I like very much your outspoken friendliness and your energetic support of the constitution of the United States. One cannot help but admire your statement for law and order."

IRON, STEEL AND METAL MARKET

Decline in Price of Finished Steel Products

Pittsburgh, January 20—[Special.]—Decided weakness in prices of several finished steel products referred to in previous reports has worked out into actual declines, of which quite a large number are now to be reported. This does not mean that the market has really slipped much more in the past week than in previous weeks, it being chiefly a case of declines coming out into the open.

Plates and shapes are quotable at 1.80c to 1.90c Pittsburgh instead of 1.90c; wire nails are \$2.30 to \$2.40 instead of \$2.40 to \$2.50, with similar decline in plain wire sold to jobbers, staples and barb wire, no change being made in wire for manufacturing use, which remains 2.40c; black sheets are 2.65c instead of 2.75c and galvanized sheets 3.30c instead of 3.40c.

Shading in plates and shapes began last October, on particularly attractive orders only, and gradually spread until now any lot much over a carload can be placed at under 1.90c. Bars are called 1.90c still but there is at least some shading. The reduction in wire products was made by the leading interest because the shading that was widespread in November and December did not stop January 1 as had been hoped.

With other declines that have occurred lately the net result is that all important finished steel products have declined in the last few months except pipe and standard rails.

Making up a weighted average of all finished steel products outside of rails, the low point since 1922 had been late in 1927 and now the market is practically even with that level, having lost the slight advances that occurred in 1928 and the fore part of 1929.

In the matter of prices the steel market has not done as well as producers expected, or said they expected, for the common prediction was that prices would hold. It was argued, reasonably enough, that prices had not advanced materially when demand was heavy and steel appeared to be scarce, that prices were moderate and not burdensome upon buyers and that mills knew no more business would be done at reduced prices, while an individual mill cutting prices would not profit much thereby as no large tonnage could be gathered up before the whole market would come down. Despite the arguments the market has gone down.

A trifle over 1000 freight cars have been bought thus far in the month, a relatively small number and the first

buying of consequence in several weeks, but there are predictions of heavier buying.

Fabricated structural steel awards reported in the last two weeks totaled about 48,000 tons, representing rather a light movement.

Rail orders thus far in the month include 67,750 tons by the Burlington, 85,000 tons by the Baltimore & Ohio, 8000 tons by the Soo Line and 7000 tons by the Central of Vermont. With some small orders the month's total to date is about 175,000 tons, while the season movement, beginning in September, totals fully 1,600,000 tons. Comparing identical roads where possible there is fully 15 per cent increase over the tonnage a year previous but only a slight increase over two years previous.

Steel ingot production last week was at about 65 per cent, representing a return to the rate of early in December, by recovery from the special year-end dip when customers were holding shipments back on account of inventory. Ordinarily there is sharply increasing production for about three months in a new year, the rate reaching a peak in March or April. This time increase is expected to be slow and spread over a longer period.

Automobile production was very light in November and almost insignificant in December, on account of stocks of new and used cars. Now there is an increase, but being from so low a rate it does not count for much in tonnage of steel demand.

Heavy Copper Stocks Bring Curtailment in Production—Silver Recovers

New York, January 20—[Special.]—The issuance of December copper statistics was the most important happening among the non-ferrous metals over the past week. These were highly unfavorable from the standpoint of the producers. The next day after their issuance the Anaconda Copper Mining Co. announced it would close down a mine at Butte, Mont., to help along curtailment of production. The figures revealed that surplus stocks of refined copper increased 44,401 tons to a total of 171,320 tons, the largest supplies since June, 1922. Meanwhile shipments fell off 13,056 tons at the time that production of refined copper declined but 7173 tons. Thus the drop in production was only half the fall in shipments, whereas the relation should have been the other way around for the good of the industry.

Domestic shipments of 58,150 tons

were the lowest since September, 1924, while export shipments of 35,652 tons were the lowest since February, 1926. United States mine production of copper ore declined 1125 tons, amounting to 74,106 tons.

Copper producers derive their chief consolation from the fact that the gain in surplus was less than many of the late predictions and from the belief that declines in the stocks at the plants of consumers, which do not show in any statistics, compensate for increase in stocks at the refineries. At any rate there is no element in the statistics which would encourage consumers to hurry the placing of orders. What buying is done over the next few weeks will be for filling actual needs in sight.

Zinc prices have again slipped off to new low levels since 1922, with quotations down to 5.15c per pound, East St. Louis, with talk of prices sagging to 5c before the tide turns. The condition of lead is still the best among the major metals. Producers are well sold ahead, business comes in with steady volume and prices are very firm. It is intimated in fact that there will be an increase in the price before long.

The price of silver is now advancing as rapidly as it declined recently. At this writing it is over 46c per ounce as against 43c per ounce at the low point of a few days ago. The silver market is a very complicated affair and reasons for rises and falls are seldom quite clear. The latest rise in price is attributed to a virtual corner of the market for January arrival, on the part of an Indian bazaar owner, whose speculative activities have been conspicuous in other years.

A flood of protest has been put out by importers of antimony against the proposed sliding scale of duty which may supplant the present fixed rate of 2c per pound. Importers claim that due to the long time needed for shipment from China the price might fluctuate several times during this process of shipment, adding much confusion as to the ultimate price. The sliding scale of duty is based on the market price at New York at the time of arrival of consignments.

Quicksilver prices are a shade easier, with metal obtainable at \$123.50 per flask, after steadiness in the market for many weeks.

Among the principal consumers of the metals the best improvement has taken place in the automobile industry, which is now ordering raw materials in normal volume after a long spell of stagnation.

The export branch of copper business has been better than local business. Ex-

port sales are averaging about 1600 tons daily, which is twice the volume of business during December. There is still much doubt throughout the business world as to whether the price of 18c per pound is going to be maintained. Some are expecting that the unfavorable statistics will be the trigger to set off a decline. Yet the answer of the producers may be curtailment of production, such as Anaconda has already started. Many observers believe that producers will hold prices at least through the first quarter of the year, by which time they will have tested the potency of the spring buying movement. Then it is possible there will be a price cut in April. It was in that month that the market broke a year ago.

Several hundred tin mines are said to have been closed in line with the curtailment program of the Tin Producers Association whereby such closing will take place a week of both January and February, and possibly of March. Yet sentiment in the tin market is no better and prices have been within $\frac{1}{2}$ c per pound of the six-year low. Consumers are very cautious purchasers.

Zinc ore production in the tri-state district has been curtailed sharply of late, both because of heavy snowfalls and because of voluntary efforts to cut output. The price of ore is unchanged at \$35 per ton.

Producers of pig lead report that the most active purchasers now are the pigment manufacturers, who are stocking up with paints to supply the spring trade. Though new building operations are falling off in residential communities, it is expected that much re-painting will be carried on.

Pig Iron in Small Lot Sales

Birmingham, Ala., January 20—[Special.]—Sales of pig iron continue in small lots, the larger consumers, with numerous orders in hand for their products and more business in sight, maintaining the policy of buying for only a short period ahead. Quotations are on the base of \$15 per ton, No. 2 foundry. Production is about equal to the pace set in December, though one blast furnace has been blown out. There has been some iron placed on the surplus stock recently but not to any great extent.

Cast iron pressure pipe production is greater now than for some time and is still under the peak. The radiator shop is melting more iron, being on a five-days a week pace and producing 25 per cent greater tonnage of radiation than before the holidays. Stove foundries are also operating right along, receiving raw material steadily. These interests use scrap, coke and other materials of the district, iron in the main.

Order books for the first quarter are

filling slowly but there is a certainty to it. Reports from other districts of lower iron prices do not appear to disturb the prospects here.

Steel mill operations in the Alabama territory are estimated at 65 per cent capacity. The open hearth furnace department of the Gulf States Steel Company in addition to being operated on full time has been augmented with billets purchased from the Tennessee Coal, Iron & Railroad Company, stock being laid up to care for the period while the new blooming and plate mills are being installed during the next 60 days. Developments by Gulf States Steel have been continuous for the past three years and not only are capable mills being built but the diversification of steel products in the near future will place this company on a very sound basis. The Gulf States Steel is considered now a nucleus for a very large steel manufacturing concern in Alabama.

Operations of mills of the Tennessee Coal, Iron & Railroad Company and the American Steel & Wire Company, also the mill of the Connors Steel Company have been showing improvement recently and various products are being moved. Railroads will take a large tonnage of the products ordered from this section before long, which will mean there will be warrant for speeding up activities. Several hundred thousand tons of steel are noted on books of the various corporations of the district. Fabricating shops are still receiving contracts every week, mainly in small tonnages, sufficient to warrant maintaining of both shop and field forces.

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$14.50 to \$15.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$15.00 to \$15.50; iron of 2.75 to 3.25 per cent silicon, \$15.50 to \$16.00; iron of 3.25 to 3.75 per cent silicon, \$16.00 to \$16.50.

OLD MATERIAL.

Old steel axles	\$17.00 to \$18.00
Old iron axles	17.00 to 18.00
Old steel rails	13.00 to 14.00
Heavy melting steel	10.50 to 13.00
No. 1 cast	12.00 to 13.00
Stove plate	11.00 to 12.00
No. 1 railroad wrought	10.00 to 11.00
Old car wheels	11.00 to 12.00
Old tramcar wheels	12.00 to 13.00
Machine shop turnings	6.00 to 7.00
Cast-iron borings	6.00 to 7.00
Cast-iron borings (chem.)	13.00 to 13.50

Steel Orders for Power Plants

The Virginia Bridge & Iron Company, Roanoke, recently received orders for steel to be used in the construction of two important Southern power projects—one on the Ouachita River near Hot Springs, Ark., and the other at Glen Lyn, Va. The company will supply 625 tons for the tainter gates for the spillway of the Carpenter dam under construction for the Arkansas Power & Light Company, Hot Springs, and 450 tons for the enlargement of the steam power plant at Glen Lyn for the Appalachian Electric Power Company, Roanoke.

WEIRTON STEEL PLANT ADDITIONS

Improvements to Include Rail and Structural Material Mill

The building program this year for the plant at Weirton, W. Va., of the Weirton Steel Company, a subsidiary of the National Steel Company, Pittsburgh, Pa., according to the latter, will involve the rebuilding of the No. 1 blast furnace and enlarging its capacity from 700 to 1100 tons daily. This work is under way and is expected to be completed by April 1. Construction is being handled by the company's own organization with the exception of the steel work which is being erected by the Riter-Conley Company, Pittsburgh. An addition to the by-product coke plant, of approximately 30 ovens of the improved Becker type, is being built by the Koppers Company, Pittsburgh. A large gas cleaning plant will be erected, while a continuous mill for producing rails and structural material will be started within 90 days and will be completed during the year. Contracts for the mill and gas cleaning plant have not been awarded.

\$5,000,000 EXPANSIONS TO RUSTLESS IRON PLANT

Baltimore Company Plans Big Increase in Production

Looking to the development of the manufacture of rustless iron on a large scale in this country, the Rustless Iron Corporation of America, which is now operating a plant at Loney's lane and the Pennsylvania Railroad, Baltimore, plans to increase its facilities at an estimated cost of \$5,000,000. The present capacity of the plant is 12,000 tons annually, employing 200 workmen. The company proposes to increase its production to 100,000 tons annually and employ about 1000 workmen. Officials of the company are undetermined as to whether the Baltimore plant will be expanded to take care of all the increased activities or whether a second plant will be built in another city.

Beginning the manufacture of their product about three years ago in the old Hess steel plant, the company is said to have found a growing market for rustless iron, its uses ranging from the manufacture of bolts and other parts of automobiles, through a variety of applications, including kitchen ware. Chrome ore is brought in by ships, for the use of the factory and if the larger plant is located in Baltimore importations will be increased by hundreds of thousands of tons. Foundations have been built and machinery ordered for an addition to the plant to cost about \$70,000. Officers of the company include Alwyn W. Wild, president; Ronald Wild, vice-president.

AVIATION, AIRPORTS AND AIRWAYS

PLANE MOTOR FACTORY PROJECTED

Chevrolet Aircraft Corporation to Build Baltimore Plant

The manufacture of a new airplane motor will soon be inaugurated in Baltimore by the Chevrolet Aircraft Corporation, Indianapolis, Ind., according to Glenn L. Martin, president of the Glenn L. Martin Company, which is building a big airplane factory and flying field at Middle River, near Baltimore. The motor factory will occupy a wing of the Martin plant initially, plans of the Chevrolet company calling for the erection of a factory later. The plant will produce a motor of 4 cylinders in line, weighing 283 pounds and capable of developing 100 horsepower. It will be of radical construction, it is said, differing from air-cooled motors for light planes now in production. The location of cylinder heads under the main body of the motor, instead of in a circle around it, makes for a better stream line in airplanes, it is pointed out, while the light weight adds to its performance in light sports planes. The Chevrolet Aircraft Corporation is a subsidiary of the Martin Company, which is now experimenting on designs of a sports plane to be built around the Chevrolet engine.

Air Mail Increasing

Fort Worth, Tex.—Air mail from Dallas and Fort Worth to Waco, Austin, San Antonio and Brownsville, carried over the line operated by the Texas Air Transport, Inc., a unit of the Southern Air Transport division of the Aviation Corporation, has shown a steady increase since the inauguration of the service about two years ago. It reached a high peak of 7760 pounds in December, the previous high monthly record having been made in May, 1929. About 2000 pounds were carried in the first month of operation.

Increasing Radio Facilities

Fort Worth, Tex.—Plans have been made by the Southern Air Transport division of the Aviation Corporation, New York, to add three new radio stations and increase the power of five stations already in operation. Stations at Atlanta, New Orleans and Waco are to be equipped with transmitting and receiving sets operating on 53 meters and using 250 watts, while the El Paso station will be increased to 500-watt operation, which is the power on which the Dallas station is already operating. San

Antonio, Houston and Fort Worth will be increased to 250 watts. The stations are used to dispatch ships, send weather reports and for general company communications. The next step in communication plans will be to equip planes to communicate with ground stations and with other planes in the air. Through special arrangements with the Coast Artillery station at Galveston, the company is offering to pilots flying in the territory covered by its system complete weather reports from Galveston.

For Wider Use of Aircraft

According to A. O. Hunsaker, president of the Aircraft Finance Corporation of America, Los Angeles, Cal., the wider usages to which aircraft are being put is the best indication that 1930 and the next few years will bring greater glory and profit to the aviation industry than it has yet known. In addition to what has been said about increased passenger volume, air-mail loads, revenue from crop-dusting and the like, Mr. Hunsaker suggests that thought be given to a multiplicity of other jobs for which the air plane is adaptable, such as spotting mineral outcroppings, aerial photography, forest patrols, advertising, etc.

To Make Airplane Motors

Ponca City, Okla.—A company has been organized here with George Lauver president, for the manufacture of a radial gasoline airplane engine invented by Mr. Lauver. Other officers include J. A. Tharp, vice-president; Guy P. Belord, secretary-treasurer, and E. M. Askey, assistant secretary. Charles D. Reed is chairman of the board. The aim of the company is to provide an improved motor, especially with respect to a new valve arrangement, by which more perfect control may be attained and the compression increased. This type of engine is said to afford a great reduction in weight and head resistance.

Air Line Carries 4300 Passengers

St. Louis, Mo.—Since its inauguration last July the Transcontinental Air Transport, Inc., has carried 4346 passengers for a total of more than 2,000,000 passenger miles, according to J. V. Magee, vice-president. Its operating ratio obtained by balancing the number of miles scheduled against the number of miles flown, has been 90.5 per cent, it is estimated, the schedule calling for 603,700 miles and the planes of the line flying 545,354 miles.

PROGRESS ON \$14,000,000 FLYING FIELD

Architects Selected for Various Units While Others are Completed and Under Way

Outlining the status of work on the new \$14,000,000 government flying school at Randolph Field, near San Antonio, Texas, Captain Arthur W. Parker, Constructing Quartermaster, states that contract has been let to the Murch Brothers Construction Co., St. Louis, Mo., and work started on two warehouses and six barrack buildings, to cost \$1,223,000. Bids will be opened February 3 on two operations and parachute buildings and a fire station, the former to cost about \$20,000 each and the latter \$15,000. Bids will be opened February 10 for ten field officers' quarters and 28 company officers' quarters and on 130 sets of non-commissioned officers' quarters. This work will cost about \$1,000,000.

The following San Antonio architects have been commissioned for other work, including the following: Robert M. Ayres & Atlee B. Ayres for a \$237,000 administration building; Phelps & Dewees, \$360,000 officers' quarters; Emmett T. Jackson, \$480,000 cadet barracks, including two barracks to cost \$150,000 each and cadet mess hall and recreational building to cost \$180,000; Ralph H. Cameron, \$80,000 academic building; Adams & Adams, \$75,000 school of aviation medicine; Harvey P. Smith, \$60,000 officers' mess; George Willis, \$200,000 hospital; Henry T. Phelps, \$210,000 air corps shops; Herbert S. Green, 11 field officers' quarters to cost \$159,500; John Marriott, 85 company officers' quarters to cost \$1,062,500, and Robert B. Kelly, for \$45,000 post exchange building. Plans and specifications are expected to be completed within 30 days, soon after which contracts will be awarded. There are several other buildings for which approved sketches have not been received from Washington, it is understood, and for which San Antonio architects will probably be engaged. They include a chapel and school, garage and a gymnasium.

In addition to the work noted above, there will be several purely engineering features, such as field drainage, storm sewers, gas distribution system, underground electrical distribution system and pavement of roadways. A complete water distribution system has been finished, except the installation of pumps and storage tank, which will be incorporated in the tower of the administration building. A sewage collection system is under construction and a sewage disposal plant will be advertised within 30 days.

NEW AND IMPROVED EQUIPMENT

Saginaw Caster Development

Outlining successive steps in the development of design and construction of industrial casters, the Saginaw Stamping & Tool Company, Saginaw, Mich., manufacturers of conveyor wheels, trolleys, casters and trucks, points out inherent weaknesses discovered in the older type



Saginaw "Supreme" Caster

caster, after industry had adapted it to numerous classes of floor transportation. Chief among these was wheel breakage in heavy duty service. The development of the pressed steel caster has successfully met heavy duty caster requirements. Considering the amount of capital invested in the rolling stock of such industries as meat packing plants, dairies, tanneries, chemical plants, paper mills and some metal working plants, the combination of excess humidity and moderate temperatures constitutes a rust menace which is an important economic factor. To remove this obstacle, the Saginaw Company has installed a complete Parkerizing department in which all caster parts are treated.

"Rubber Sandpaper" for Take-up Drums

A formula for manufacture of a special crepe rubber for covering take-up drums on silk and rayon looms has been worked out by the laboratory of Crompton & Knowles, Worcester, Mass., loom manufacturers, in conjunction with the laboratories of the Hood Rubber Company, Watertown, Mass. This new product is said to contain not only a higher percentage of pure rubber than is commercially obtainable, but the formula has been developed with the idea of resisting the deteriorating action of Sericin oil as well as humid conditions in the mill. The rubber is claimed to have all the friction and adhesive qualities of sandpaper without injurious effects on the fabric. It is prepared in strips 3 3/8 inches in width.

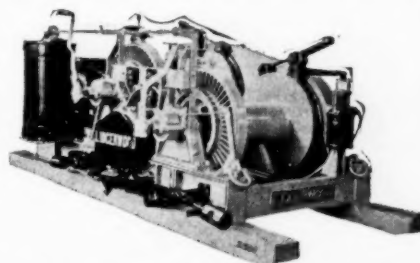
Automatic Brakes for High Speed Hoist

To guard against accidents resulting from the dropping of loads, especially in congested districts, the Lidgerwood Manufacturing Co., Elizabeth, N. J., recently announced a new type of high-speed steel erectors' hoist equipped with emergency brakes which are automatically set in case either of power failure or neglect of the leverman to keep his feet on the service brake levers. The hoist is built in the 100-horsepower size, duty 9000 pounds at 300 feet per minute, for operation with three-phase, 60 cycle alternating current at 220 volts. A model is also available for 440-volt operation on special order.

This new type hoist is equipped with band service brakes controlled by foot levers used to govern the rope speed while lowering or to hold the drums while the frictions are disengaged. In addition, emergency V type post brakes are fitted to each drum over the frictions, which are spring set and released by means of motor-operated hydraulic rams. Emergency brakes may also be set at will by means of a hand switch

for each drum mounted on a convenient panel, which is also provided with pilot light to indicate whether the current is on and whether the brake is set. While the drums are provided with steel ratchets and pawls, the emergency brakes are used for regular service.

Other features of the machine are conventional, the drive between the motor and hoist being a silent chain belt en-



Hoist Fitted With Emergency Brakes

closed in an oil-tight casing. All gearing is of cut steel protected by guards, and wiring is enclosed in armored metal conduit, while resistors are of the non-breakable edgewound type. Except for attaching current supply wires and fuses and placing rope on the drums, the hoists are shipped as complete units.

Seven New Excavators

The Harnischfeger Corporation, Milwaukee, Wis., announces the addition of seven new models to its P & H line of excavators, providing a size to meet all requirements from 1/2 to 3 1/2 cubic yards capacity. The new models are known as the 600-A, 1-yard; 650-A, 1 1/4 yard; 700-A, 1 1/4-yard rock shovel; 750, 1 1/2-yard; 775, 1 1/2-yard long corduroy model; 800, 2 1/2-yard, and 900, 3 1/2-yard. These excavators are convertible, with exception of model 775, which has specially long crawlers for low ground pressure requirements, and for this reason can only be used as a dragline, clam-shell

crane or trench-hoe. Improvements incorporated in the new P & H models, after months of field tests, include new internal expanding swing clutches, longer lived clutch and brake bands, stronger "fish belly" type of shovel boom with larger cable sheaves and an easy-operating dipper trip. Shock absorbing springs on the power clutch insure smoother operation and all machines may be equipped with the newest type, fully enclosed, dust-proof full Diesel motors. A number of models may be equipped as shovel, dragline, crane, clamshell, trench-hoe, skimmer-scoop or pile driver, while models 800 and 900 are equipped as shovel, dragline or clamshell-crane. In

addition to these models P & H also builds model 203-A truck crane, models 10-30 and 15-36 trenchers, model 35 backfiller and the new model T-2 tamper.



An Addition to the P. & H. Line of Excavators

CONSTRUCTION DEPARTMENT

and

NEW ENTERPRISES

Covering the initial announcements of new undertakings with additional information about enterprises previously mentioned. The date at the end of an item indicates preliminary facts were given in a previous issue.

When writing to a new firm or corporation the name of at least one of the incorporators should be placed on the envelope to expedite its handling by the local postoffice. Mail may be delayed unless complete address is given.

Building and Construction Proposed and Contracts Awarded; Manufacturing, Mining, Power, and Land Developments; Public Works; Transportation; Communication; Financial Enterprises; New Business Opportunities Reported in the Sixteen Southern States.

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Airports, Airplane Plants, Etc.

Fla., Tampa—Corman Co., Auburn, Ind., reported, may establish airplane plant; Kelley Jones, 4303 North A St., named to obtain option and financial backing.

Ga., Atlanta—Southern Air Transport, Inc., Fort Worth Natl. Bank Bldg., Fort Worth, Texas, completing plans for hangar, Candler Field; brick, stucco, steel, 1 story; Jerry Marshall, Operations Mgr.; Bert Slater, Ch. Engr. 12-5

Ky., Middlesboro—Chamber of Commerce interested in establishing airport.

La., Baton Rouge—East Baton Rouge Parish, Police Jury, Joseph Gebbellin, Pres., Court House, opens bids Feb. 11 for furnishing 7000 lb. carpet grass seed and installing drainage material at airport; A. G. Seifried, Inc., Landscape Archt. and Engr., Weick Bldg. 1-2

Mo., St. Louis—Moth Aircraft Co., Milton M. Warren, Lowell, Mass., manufacturer of airplanes and parts, affiliated with Curtiss-Wright Corp., 27 W. 57th St., New York, reported, plans moving plant here soon, where production will be consolidated at plant of parent company, manufacturing Robin planes; expand St. Louis plant.

Okla., Hollis—Harmon County Chamber of Commerce, J. W. Ratekin, Sec.-Mgr., plans establishing airport; erect hangar.

Tex., Dalhart—Dallam County Comms. designated 640 acres of Dallam County Farm for airport; open bids Feb. 11 on lease for operating airport.

Tex., Fort Worth—Southern Air Transport, Inc., Fort Worth Natl. Bank Bldg., subsidiary of Aviation Corp., 122 E. 42nd St., New York, establish maintenance and repair depot, and increase power of 5 stations in operation as immediate improvements in short-wave radio system; Atlanta, Ga., New Orleans, La., and Waco, Tex., to be equipped with transmitting and receiving sets operating on 53 meters and using 250 watts of power; El Paso station to be increased to 500 watts; San Antonio, Houston and Fort Worth to be increased to 250 watts; stations to be used to dispatch ships, send weather reports and general company communications.

Tex., Georgetown—City votes Feb. 4 on bond issue for purchasing 100 acres for government airplane landing field.

Tex., Goose Creek—Southwest Air Service, Inc., Haywood Helms, Pres., Houston Airport, Houston, plans airport; erect hangars, etc. 12-19

Tex., Llano—Chamber of Commerce interested in establishing airport; J. F. Buttery, Chmn. of committee to work out details.

Tex., Port Arthur—Airport Committee of Chamber of Commerce, Fred P. Dodge, Chmn., also Supt. of Texas Co. refinery, proposed calling bond election for establishing airport on Sabine Lake front, for land and sea planes. 10-17

Bridges, Culverts and Viaducts

Proposed Construction

Ark., Arkadelphia—War Dept., Washington, approved plans Missouri Pacific Ry. Co., E. A. Hadley, Ch. Engr., St. Louis, to re-

construct bridge over Ouachita River, Arkadelphia; construction to start soon, cost \$100,000 to \$150,000.

D. C., Washington—U. S. Dept. of Agriculture, Bureau of Public Roads, Thomas H. McDonald, Ch. of Bureau, Washington, receives bids Feb. 20 for Unit 111 of Mt. Vernon Memorial Highway, from south end of Columbia Island in Potomac River to south shore of Little Hunting Creek, in Dist. of Columbia, Alexandria, Va., and Arlington and Fairfax Counties, Va., consisting of 12 bridges, underpasses, etc.; Group No. 1: Underpass south end of Highway Bridge, bridge over Boundary Channel; new abutment for highway bridge, underpass R. F. & P. R. R., bridge over Roaches Run, and alterations to Highway Bridge; 22,200 cu. yd. excavation, 15,120 cu. yd. conc., 1,222,000 lb. rein. steel, 1,585,700 lb. fabricated struct. metal, 132,170 lin. ft. timber piles; Group No. 2: Overpass, proposed airport entrance, bridge over Four Mile Run, overpass, Southern Ry. Industrial track, bridge over Hunting Creek, Wellington underpass, overpass, Fort Hunt, Va., and bridge over Little Hunting Creek; 38,940 cu. yd. excavation, 14,810 cu. yd. conc., 1,058,000 lb. rein. steel, 9,200 lb. fabricated struct. metal, 134,890 lin. ft. timber piles, 10,440 lin. ft. conc. piles.

La., Jonesville—Louisiana Highway Comn., Baton Rouge, will start construction within 30 days on free highway bridge across Black River, Jonesville, making survey; considering bridge over Little River, Jonesville; H. B. Henderlite, State Highway Engr.

La., New Orleans—Waddell & Hardesty, Consult. Engrs., 1150 Broadway, New York City, preparing plans for bridge at Bayou St. John on axis of Esplanade Ave.; Bryson Vallas, City Engr.; probably will not start construction for 4 months.

La., Opelousas—St. Landry Parish Police Jury receives bids Jan. 25 for bridge at mouth of Bayou Boeuf.

Md., Baltimore—City, Wm. F. Broening, Mayor, engaged J. E. Greiner & Co., Consult. Engrs., Lexington Bldg., for Howard St. viaduct at Mount Royal Ave., viaduct to carry Howard St. across Jones' Falls Valley and tracks of Baltimore & Ohio and Pennsylvania R. R., and viaduct to connect Howard St. with Stony Run Drive, estimated cost \$1,550,000; Ezra B. Whitman, Engr., Baltimore Trust Bldg., as consultant on Bath St. viaduct, and bridge to carry Lafayette Ave. over tracks of Pennsylvania R. R., estimated cost \$1,220,000; Henry G. Ferring, Court Sq. Bldg., as Consult. Engr. on bridge to carry Loney Lane over Pennsylvania R. R., estimated cost \$100,000; Bridge Div. of Bureau of Highways, Herman F. Lucke, Jr., in charge, will design Pennsylvania R. R. bridges; railroad company to pay half cost in each case; city will award contracts and will pay half cost; votes Nov. 4 on bonds; Charles F. Goob, Ch. Engr. 9-26

Md., Chesapeake Beach—See Miscellaneous Construction.

Md., Relay—State Roads Comn., Baltimore, receives bids Feb. 4 for substructure for proposed bridge over tracks of B. & O. R. R. along Main Ave., Relay; G. Clinton Uhl, Chmn.

Miss., Belzoni—Humphreys County Bd. of Supvrs., R. H. Hutchens, Clk., receives bids Feb. 3 for bridge on public road, across Cold Lake, Dist. No. 2.

Miss., Columbus—State Highway Dept., Jackson, plans conc. piers for Buttahatchie River Bridge, Route 45, between Columbus and Aberdeen.

Miss., Holly Springs—Marshall County Bd. of Supvrs., J. T. Wade, Clk., receives bids Feb. 4 for 3 bridges. 60-ft. post traffic trestle bridge, Dist. No. 1; 64-ft. pile bridge west of Chulahoma, on Wall Hill and Chulahoma road, Dist. No. 4; 42-ft. post trestle bridge on Chulahoma and Orion road Dist. No. 4.

Miss., Port Gibson—Claiborne County Bd. of Supvrs., W. L. Allen, Chancery, Clk., receives bids Feb. 3 for bridge over Storm Creek, Dist. 4.

Miss., Sumner—Tallahatchie County Bd. of Supvrs., Mrs. D. S. Henderson, Clk., receives bids Feb. 3 for two 40-ft. span iron bridges for Beat 2.

Miss., Tylertown—Walthall County Bd. of Supvrs. receives bids Feb. 3 to repair Yarbrough Magee's Creek, Second Supvrs. Dist.

Missouri—State Highway Dept. receives bids for 21 bridges. See Roads, Streets, Paving.

Mo., Independence—Jackson County Court approved agreement between County and Missouri Pacific Ry. Co., E. A. Hadley, Ch. Engr., St. Louis, for viaduct on Colburn extension road, near Lees Summit; cost \$34,000.

North Carolina—State Highway Comn. receives bids for 4 bridges, underpass and approaches. See Roads, Streets, Paving.

N. C., High Point—Guilford County Comms., Greensboro, making survey for bridge near High Point: Steel bridge across creek on Springfield road; bridge on East Greene St., extended.

N. C., Winston-Salem—Bd. of Aldermen authorized Winston-Salem Southbound Ry. Co. to construct underpass, across First St., between Trade and Liberty St., extending Tar Branch of railway.

N. C., Winston-Salem—State Highway Comn., Raleigh, receives bids about Feb. 17 to grade, drain and construct 3 culverts, 7 mi. old Kernersville road, from High Point road into Kernersville, Forsyth County; John D. Waldrop, State Highway Engr.

Tenn., Knoxville—City, Geo. R. Dempster, Mgr., employed I. L. Simmons, Chief Bridge Engr., Chicago, Rock Island & Pacific Ry. Co., Chicago, to check several plans for 2040-ft., 54-ft. wide, rein. conc. bridge, 6-ft. sidewalk, over Tennessee River at Henley St., cost about \$1,000,000; Lee C. Monday, Chmn. of Bridge Committee, 903 Island Home Ave.; recently reported construction to begin in Feb. 1-16

Tex., Austin—City, Adam R. Johnson, Mgr., plans 3 bridges over Waller Creek. 40-ft. span rein. conc. arch type bridge at Thirty-second St., estimated cost \$6,000; 55-ft. rein. conc. arch bridge on scow at Second and Red River St., estimated cost \$35,000; 40-ft. arch type rein. conc., at Thirty-fourth St. cost about \$6,500; conc. triple 9x6-ft. structure and lateral drainage improvements and channel changes at Twenty-six

and one-half and Duval St., estimated cost \$12,000; H. R. F. Helland, Constl. Engr.; C. G. Lavender, Bridge Engr.

Tex., Corsicana—See Roads, Streets, Paving.

Tex., Fort Worth—Texas and Pacific Ry. Co., E. F. Mitchell, Ch. Engr., Dallas, reported, receives bids in Feb. for Henderson St. underpass, under T. & P. Ry. tracks; rein. conc.; plans 3 viaducts at Ballinger, Summit and Daggett Ave.; D. L. Lewis, City Engr. 1-16

Tex., Houston—City, W. E. Monteith, Mayor, preparing plans for bridge at McKee St. over Buffalo Bayou: Three span structure, 360 ft. long, 40-ft. roadway, two 8-ft. side-walks; steel girders; 7-in. rein. conc. floor slab; conc. piers and abutments on pile foundation; H. L. Shaw, City Engr.

Tex., Weslaco—Los Alamos International Bridge Co., Weslaco, receives bids early in 1930 for 3-span, 120-ft. steel, conc. suspension type bridge over Rio Grande River, cost \$150,000. 12-19

Virginia—State Highway Comm., received low bid for 4 bridges. See Roads, Streets, Paving.

Va., Warsaw — State Highway Comm., Richmond, receives bids Jan. 23 for 201-ft. steel beam bridge over Totuskey Creek, at Totuskey Wharf, Richmond County; 8,000 f. b. m. creosoted timber, 41,390 lb. rein. steel, 85,750 lb. struct. steel; C. S. Mullen, Ch. Engr.

Contracts Awarded

Fla., Orlando—See Roads, Streets, Paving.

Ky., Louisville—Southern Ry. Co., B. Herman, Ch. Engr., Washington, D. C., let contract to Virginia Bridge & Iron Co., Birmingham, Ala., \$8,000, for steel for Third St. underpass; L. B. Fugitt Co., 307 N. Michigan Ave., contractor for bridge. 11-28

Miss., Liberty—Amite County Bd. of Supvrs. let contracts for 2 bridges: Near George Cunningham's to J. A. Brabham; Liberty-Centerville road near Brown's mill to J. W. McGehee. 1-2

Okla., Tulsa—City Comm., Dan W. Patton, Mayor, let contract to Standard Paving Co., 2119 E. Eleventh St., \$144,654, for Cincinnati Ave. viaduct in connection with proposed Union Station; R. K. Teis, City Engr. 1-9

Canning and Packing Plants

Fla., Sebring—Highlands Canning Co. incorporated; George Maxey, O. D. Garnett; erect packing plant at Lakemont; corrugated iron over wood frame; capacity 100,000 cases per season.

La., New Orleans—Squire-Dingee Co., 1918 Elston St., Chicago, Ill., reported, has site on Jefferson Highway near Southport, construct \$300,000 pickle plant; establish 30 substations in South Louisiana and Mississippi.

Coal Mines and Coke Ovens

Ala., Parrish—Bell Coal Co., formed with J. B. Bell, Pres., also Mgr., Parrish Coal Co., and John Alliner, Supt. of Mines; open mines at Glen Mary, Winston County, and will open general offices at Haleyville soon.

Ky., Coalgood—Mary Helen Coal Corp., reported, has plans under way for rebuilding burned tippie and installing new machinery.

Ky., Hazard—Felix Coal Co., capital \$20,000, incorporated; C. B. Rose, D. Braughn.

Ky., Pikeville—United Elkton Coal Co. increasing capital, \$50,000 to \$100,000.

Cotton Compresses and Gins

Ark., Monette—John C. Gray, reported, plans construction cotton gin.

Tex., Corpus Christi—Aransas Compress Co., Fort St., reported, have plans ready in Feb. for superstructure and fire protection for compress addition; Hardy & Curran, Nixon Bldg., Architects. 1-2-30

Tex., Crawford—Farmers Gin Co., capital \$20,000, incorporated; Earl Medford, O. H. McCollum.

Tex., Rio Grande City—Guerra Gin Co., increased capital \$20,000 to \$40,000.

Cottonseed-Oil Mills

Tex., Richmond — Anderson, Clayton & Co., Cotton Exchange Bldg., Houston, reported, acquired, Richmond Cotton Seed Oil Mill; will improve.

Drainage, Dredging and Irrigation

Fla., Miami—Maj. Gen. Lytle Brown, Ch. of U. S. Army Engrs., Washington, recommended widening of Miami's channel 200 to 300 ft., to be completed within next year, to House Rivers and Harbors Committee, involving \$885,000, and \$16,000 for annual maintenance.

Fla., St. Marks — House Committee on Rivers and Harbors, Washington, approved constructing canal 100 ft. wide with 9-ft. channel, between Pensacola and Mobile Bays and improving St. Marks River in Florida between its mouth and St. Marks.

Louisiana—Bd. of State Engrs., New Orleans Court Bldg., New Orleans, let contract to A. L. Byrd, Opelousas, at 46 cents per cu. yd., for drain ditch on land side of levee, Atkins Bayou to Krotz Springs, approx. 6 mi. long, approx. 13,000 cu. yd. earthwork, and 17 acres of clearing.

La., Crowley—Acadia Parish plans \$75,000 bond issue for drainage.

Maryland—Claiborne-Annapolis Ferry Co., Court of Appeals Bldg., Annapolis, let contract to Standard Dredging Co., 233 Broadway, New York, for dredging channel, Kent Island; jetty work under construction to be completed within 6 weeks; construct 140-ft. pier, Kent Island landing; plans beginning operations between June 1 and 15.

Miss., Savage—Bd. of Supervisors of Tate County, Senatobia, issued \$20,000 Arkabutla Creek Drainage Dist. bonds; proceeds for digging new channel into Coldwater River.

Miss., Senatobia—Strayhorn Creek Drainage Dist. organized with Joe Price, M. W. Gabbert and Herbert Green, Commrs.; issue of \$20,000 bonds for digging canal.

N. C., Wilmington—Ch. of Engrs., U. S. Army, Washington, authorized dredging 486,234 cu. yd. material, Beaufort-Cape Fear waterway; U. S. Engr. Office, Wilmington, soon call for bids.

Tenn., Nashville—State Park & Forestry Comm. let contract to Thompson & Moseley, Memphis, at \$98,500.95, for 997,000 yd. excavation on proposed drainage ditch, extending, Reelfoot Lake to Obion River; L. O. Brayton Engr. Co., Engr., Dyersburg. 1-9

Tex., Freeport—Ch. of Engrs., U. S. Army, Washington, authorized dredging 2,000,000 cu. yd. material in Freeport Harbor; U. S. Engr., Galveston, soon call bids.

Tex., Port Arthur—U. S. Engr. Office, Galveston, reported, expend \$1,000,000 for improvements, including widening Sabine ship channel in three places to provide more room for passage of ships and speeding up of water traffic; work to be started at once by John Jacobsen & Co., 2311½ C St., Galveston, under supervision of O. R. Scott, Ch. Engr., 3346 6th St.; widen strip of canal from high school to point below Sabine Towing Company's property, about 1 mi.; dredge will trim 50 ft. off bank of canal, making canal 150 ft. wide; at point where bank is cut away, waterway will be deepened to 30 ft.; dredge slips to provide about 400 ft. dockage space for berthing U. S. Government dredges and other water crafts; docks to be constructed as ship has been dredged; widen at point of curve at salt locks, between engineer's office and Neches River, canal here to be dredged to width of 150 ft. for distance of 2000 ft., present width being 100 ft.; widen sill between Port Arthur and Sabine, canal to be enlarged, 100 to 150 ft. for distance of 2000 ft.

Electric Light and Power

Electric light and power work in connection, with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Alabama—Mississippi Power Co., Gulfport, Miss., advises have not yet formulated plans for Tennessee River project. 1-9

Ark., Marianna—City, reported, will have lighting system installed by Arkansas Utilities Co. controlled by Community Power & Light Co., St. Louis, Mo.

D. C., Washington—Potomac Electric Power Co., 14th and C Sts. N. W., let contract to Skinner & Garrett, 1719 I St. N. W., Washington, for substation on Champlain St. N. W. 1-9-30

La., Amite—Louisiana Power & Light Co., Algiers, reported, extend power transmission

line from here to supply additional power to Great Southern Lumber Co., Bogalusa.

Miss., Gulfport — Mississippi Power Co., Gulfport, install dual-drive exciter in generating room of steam plant.

Miss., Poplarville—Mississippi Power Co., Gulfport, reported, plans building 6 mile rural power line from here on highway to Lumberton.

Miss., West Point—Mississippi Power Co., Gulfport, negotiating for municipal power plant.

Mo., Springfield — City install additional street lights; Raymond Potter, Commr. Public Utilities.

N. C., Weeksville — Virginia Electric & Power Co., Richmond, Va., reported, supply power to Weeksville.

N. C., Williamston—Virginia Electric & Power Co., Richmond, Va., reported, has preliminary survey for transmission line.

Okla., Oklahoma City—Byllesby Engineering & Management Corp., 231 S. LaSalle St., Chicago, Ill., advises that following equipment contracts have been let in connection with Lincoln Beerbower steam plant of Oklahoma Gas & Electric Co.: General Electric Company, Schenectady, N. Y., for generation equipment including air cooler and exciter; Allis-Chalmers Company, Milwaukee, Wis., for condenser equipment including steam pump and motor pump; Springfield Boiler Co., Springfield, Ill., for 2 boilers, superheaters and soot blowers; Allen-Sherman-Hoff Co., 223 S. 15th St., Philadelphia, Pa., for ash hoppers for boilers; Air Preheater Corp., Wellsville, N. Y., for air preheater for boilers; Terry Steam Turbine Co., Hartford Conn., for 3 non-condensing, 2 boiler feed, and one service water turbines; The Permutit Co., 4th Ave. & 30th St., New York, for water softeners—boiler feed; Croll Reynolds Eng. Co., Inc., 19 John St., New York, for boiler feed evaporation equipment including condenser, high and low pressure heaters; Croll Reynolds Eng. Co., for evaporator (building heating); Chain Belt Co., 744 Park St., Milwaukee, Wis., for 2 Rex traveling screens—circulating water; Beaumont Mfg. Co., 319 Arch St., Philadelphia, Pa., for fuel handling and fuel crusher; Riley Stoker Corp., Worcester, Mass., for fuel pulverizers; Moloney Electric Co., Newark, N. J., for transformers. 12-12

S. C., Charleston—South Carolina Power Co., plans expending \$2,500,000 during 1930 in rebuilding street railway property, reconstruction of Summerville power distribution station, rehabilitation of distribution stations at Aiken, Edgefield; extension line from Charleston to Meggett; construction of local plant and distribution system at North Augusta; reconstruction of substation at Beaufort and line from Bamber to Cope.

S. C., McClellanville—South Carolina Power Co., Charleston, let contract to Dixie Construction Co., 276 King St., Charleston, for generating plant. 1-9-30

S. C., Newberry—Duke Power Co., Charlotte, N. C., reported, building power line between here and Saluda River station. 9-12

Tennessee—State Railroad and Public Utilities Comm., Nashville, reported, approved sale of properties of Southern Cities Power Co., Chattanooga, and Public Light & Power Co., Chattanooga; properties include plants in Wartrace, Pikeville, Kingston, Selmer, Savannah and Franklin. 11-14

Tenn., Alamo—J. Elliott Hall, Columbus, O., acquired Alamo Power & Light Co.

Tenn., Camden—C. C. Arnold, reported, has contract for power line Camden to bridge at Trotter's Landing, later extend to Eva.

Tenn., Knoxville—City, George Dempster, Mgr., plans white way on Healey St.

Tenn., Memphis—Memphis Power & Light Co., Madison Ave. & Third St., reported, erect service station Dunlap & Beal Sts.; brick; 2 story; 60x100 ft.; comp. built-up roof; conc. and wood floors; I. D. McDaniel, Archt., Goodwyn Inst. Bldg.; Harry Hunter, Engr., Union Planters Bank Bldg.

Tenn., Louisville—Knoxville Power & Light Co., Knoxville, reported, extend power line to Louisville.

Texas—Gulf Public Utilities Co., controlled by General Public Utilities Co., 205 Planters Bldg., St. Louis, Mo., reported, expend \$4,000,000 in improvements to Texas plants.

Tex., Amarillo—Southwestern Public Service Co., subsidiary of American Commonwealth Power Corp., 120 Broadway, N. Y., reported, install white way system on W. Tenth Ave.

Tex., Andrews—Texas Electric Service Co., O. B. Bryan, Mgr., plans installing street lighting system, Blanco, Andrews St., etc.

Tex., Dallas—Texas Power & Light Co., J. W. Carpenter, Pres., announced soon begin construction of unit to increase present capacity of Trinidad station on Trinity River in Henderson County to 80,000 kw.; install one 40,000 kw. turbines and generator unit and two 32,000 sq. ft. high pressure boilers; 300 ft. rein. conc. smokestack; unit so arranged that additional units may be added; use lignite for fuel; construction by Texas Construction Co., Interurban Bldg., Dallas; also construct 132,000 volt line south from Trinidad to connect with southern end of present transmission line and later another 132,000 volt line will be built from Trinidad to switching station at Hillsboro.

Tex., Terrell—Texas Power & Light Co., Dallas, reported, acquired Terrell Electric Light Co.'s plant.

Va., Danville—People's Light & Power Corp., 40 Exchange Place, New York, reported, no longer interested in development of hydro electric plant in Patrick County. 1-2

Va., Shenandoah—Chase & Gilbert, Inc., 31 St. James Ave., Boston, Mass., advises work will probably start in summer on \$200,000 Shenandoah River Power Co.'s Elkton development; engineering and construction work by own forces. 1-16

West Virginia—Upper Potomac River Bd., reported, composed of representatives of West Virginia Pulp & Paper Co., 200 Fifth Ave., New York; Celanese Corporation of America, Cumberland, Md.; Kelly Springfield Tire Co., 1775 Broadway, New York; Potomac Edison Co., Hagerstown, reported, interested in proposed electrical development on Stony River near Schell, 50 miles from Cumberland, Md.; steam power electric generating plant, cost \$4,000,000, consisting of 7 impounding dams; develop 12,000 kw.

W. Va., Huntington—Appalachian Electric Power Co., Bluefield, reported, negotiating for street lighting franchise.

Foundry and Machine Plans

Ala., Birmingham—Chicago Bridge & Iron Co. negotiating to acquire local plant of Reeves Bros. Co., Alliance, Ohio, tank and struc. plate fabricator.

Tenn., Chattanooga—Tennessee Stove Works, L. H. Cladwell, 14th St., advises expect to erect addition; 150x200 ft., not including boiler room, etc.; to have complete modern enameling plant, including continuous electric enameling oven; move sheet steel department and add presses for complete stamping department; completed plans and bids to be received not later than Feb. 10. 1-16

Garages and Filling Stations

Ala., Montgomery—Firestone Tire & Rubber Co., Akron, Ohio, reported, let contract to Hugger Bros Construction Co., Shepherd Bldg., for store and service building, 303 S. Court St.; 2 story and basement, rein. conc., struc. steel, brick, steel sash, built-up roof; Okel & Cooper, Archts., Bell Bldg.

Ark., Berryville—See Harrison.

Ark., Harrison—Standard Oil Co. of Louisiana, Baton Rouge, acquired sites and will erect tanks, warehouse and garage; establish district stations at Harrison, Berryville, Rogers and Fayetteville. (See Fayetteville, 1-16.)

Ark., Rogers—See Harrison.

D. C., Washington—F. H. Rowe, 3311 M St., N. W., let contract to Baben & Wright, 916 Rhode Island Ave., N. E., for \$15,000 garage; A. S. J. Atkinson, Archt., 3801 Macomb St., N. W.

Fla., Leesburg—Seaboard Oil Co., 5600 N. E. Fourth Ave., Jacksonville, let contract to C. Z. Osborne, Umatilla, for \$25,000 service station, including conc. drives, steel canopy.

Fla., Normandy—Harrys Service Station, Inc., 7604 Florissant Rd., capital \$31,000, chartered; Harry N. Goethe.

Fla., Orlando—Nixon-Butt Packard Co., Nixon Butt, 331 Cherokee Drive, let contract to McCree Construction Co., Orlando, for showroom and garage; 1 story, 70x50 ft. 1-2

Fla., Tampa—Tampa Terrace Garage, A. B. Kibler, 3190 Cresap St., and D. B. Kibler, Lake Hunter Dr., Lakeland, expend \$10,000 remodeling garage; owners build; private plans. 10-17

Ga., Atlanta—T. H. Jeffries, Court House, erect \$35,000 garage and salesroom, 175 Marietta St., N. W.; brick, steel, rein. conc. floor

slab and roof, 1 and 2 story and part basement, 200x50 ft.; owner builds by day work; private plans.

Ga., Atlanta—Associated Enterprises, Inc., let contract to W. F. Converse & Co., Bona Allen Bldg., for \$80,000 garage, Ivy and Courtland on Houston St.; 3 stories and basement, 107x150 ft., rein. conc., brick, tile, cinder block, terra cotta, marble, steel rolling doors, steel sash; C. E. Freeman, Ford agent, Lessee, 269 Blvd., N. E.; G. Lloyd Preacher & Co., Inc., Archt.-Engr., Mortgage Guarantee Bldg. 10-17

Ky., Princeton—Stevens Chevrolet Co., capital \$15,000, incorporated; Phillip Stevens, A. B. Cantrell.

La., Monroe—505 Tire Service, Inc., capital \$15,000, chartered; T. V. Roussel, Loop road.

La., New Orleans—Dixie Garage, Inc., let contract to Wm. Dudley, 348 Baronne St., for \$12,600 alterations to garage, Magazine St. between Gravier and Common St.; Wogan & Bernard, Archts., Canal Bk. Bldg.

La., New Orleans—B. Mancuso, 3632 Prytania St., plans \$10,000 filling station, Prytania and Antoine St.; tile and comp. roof.

Md., Baltimore—Standard Oil Co., Standard Oil Building, plans erecting filling station, York Rd. and Cold Spring Lane; plans and construction by owner.

Miss., Crystal Springs—Standard Oil Co., N. State St., Jackson, started erecting \$15,000 service station, Marion Ave. and S. Jackson St.; to be occupied by new automobile agency.

Miss., Fayette—Jeff Truly let contract to Reed Bros., Natchez, for building, Poindexter and Magnolia St.; largely of concrete, showrooms, storage and shop rooms, offices, service station, etc.; Fayette Motor Co., Ford dealer, Lessee.

Mo., Kansas City—Jacob Test, 2610 Victor St., establish parking station, 1229-33 Main St.

Mo., Valley Park—Eagle Motor Truck Corp., J. P. Reis, Pres., 6156 Bartlett St., let contract to E. H. DeLinere Construction Co., 6522 Joseph St., for plant; first unit to be parts department, brick, struc. steel, 1 story, 52x200 ft.; second unit, paint shop, 1 story, 50x75 ft., conc. foundation, corrugated roof, steel sash, metal skylights; pouring footings; private plans.

N. C., Charlotte—Keely-Grice Co., 12 W. 1st St., let contract to J. P. Little & Son, Builders Bldg., for filling station; M. R. Marsh, Archt., Builders Bldg. 10-24

N. C., Fayetteville—Standard Oil Co., 26 Broadway, New York, erect filling station, Haymount section.

N. C., Goldsboro—Carr Spring Co., capital \$25,000, incorporated; B. F. Carr, 714 E. Ash St.; deal in auto accessories.

N. C., Henderson—Henderson Vulcanizing Co., capital \$50,000, incorporated; Thomas W. McCracken, Henry R. Mangum.

N. C., Hendersonville—Hendersonville Hudson Co., capital \$25,000, incorporated; W. W. Walker, T. D. McCall.

N. C., Laurinburg—Standard Oil Co., razing structure, Main and Church St., and will erect service station.

Tenn., Chattanooga—Morgan-Tarwin Auto Co., Inc., chartered; Joe Frassrand, Hamilton Nat'l Bk. Bldg.

Tenn., Jackson—Dixie Oil Co., subsidiary of Standard Oil Co. of Indiana, 910 S. Michigan Ave., Chicago, Ill., has plans complete for garage and office; 2 story, brick, rein. conc., steel, comp. built-up roof, conc. and wood floors; J. L. Parham, Archt.

Tenn., Memphis—John K. Zent, 266 N. Garland St., acquired Washington Garage, Washington Ave. and Fourth St.; erect drive-in filling station.

Tenn., Memphis—Pennsylvania Oil Co., F. P. Kendall, Pres., 105 Second St., taking bids, no date set for closing, for \$10,000 filling station, Lamar Ave. and Walker St.; W. C. Lester, Archt., Derman Bldg. 12-26

Tenn., Shelbyville—Peoples Service Station, John D. Hutton, Jr., install filling station recently burned.

Tenn., Tullahoma—Pan-American Petroleum Corp., 120 Broadway, New York, acquired Aydelott property for erecting filling station.

Tex., Fort Worth—Firestone Service Stores, Inc., let contract to Thomas S. Byrne, Inc., Fort Worth Natl. Bk. Bldg., for \$250,000 service station, W. Seventh and Henderson St.; 80x165 ft., Spanish Renaissance type, struct. steel, brick, stone trim, canopy 12

ft. wide, of orna. copper; includes service departments, locker rooms, space for tire stocks, vulcanizing and battery departments and storage rooms; tire shop, octagonal in shape to have 1200 sq. ft. floor space, 140 ft. show window space; E. G. Withers, Archt., Holmes Bldg. 1-2

Tex., Fort Worth—G. O. Johnson, Wichita Falls soon let contract for garage addition, Forest Park Blvd., Forest Park Apartments; rein. conc. 1 story 51 x 64 ft., rein. conc. floors and roof.

Tex., Sherman—Thamisch & Harvey, Inc., changing name to Thamisch Chevrolet Co.

Va., Charlottesville—Monticello Motors, Inc., capital \$15,000, chartered; S. A. Jessup.

Va., Martinsville—T. H. Self erecting \$18,000 service station, Fayette St.; 75x70 ft.; Teaxs Co., Lessee; Finley McCoy, Gen. Contr.

W. Va., Huntington—South Penn Oil Co., 541 William Penn Way, Pittsburgh, Pa., erect \$9000 filling station, Fifth Ave. and 20th St.; \$10,000 station, Fifth Ave. and 31st St., and \$18,000 station Third Ave. and Sixth St.

Gas and Oil Enterprises

Ark., El Dorado—Lion Oil Refining Co., T. H. Barton, Pres., has under consideration development program; plans not definitely decided; will expend several hundred thousand dollars.

Ark., Gentry—Town, reported, granted gas franchise to Arkansas Western Gas Co., Fayetteville, for installing complete natural gas system within town limits.

Ga., Atlanta—Southern Cities Public Service Co., Gas Bldg., Atlanta, advises company, furnishing natural gas to this city and will expend \$2,000,000 for additional service to consumers, additional service mains and trunk line feeders in Atlanta; by Feb. 1 company will be supplying cities in this section; Atlanta Gas Light Co., 73 Marietta St., is constituent company. 1-16-30

Ga., Savannah—Southern Dredging Co., Jacksonville, Fla., has contract for construction 400 ft. Lackawanna steel bulkhead, anchorages, dredging and filling along front of property opposite upper part of Hutchinson Island on Savannah River for Mexican Petroleum Corp., 122 E. 42nd St., New York; cost about \$100,000. 1-16-30

Ky., Barbourville—Noah Smith, Pres., Barbourville First Natl. Bank, reported, acquired Barbourville Supply Co., furnishing city with natural gas, from Knox County gas fields.

Ky., Louisville—Jerry Oil & Gas Co., capital \$32,000, incorporated; A. J. Dawley, St. Matthews.

Ky., Mayfield—City granted natural gas franchise to A. Greenspon; will begin work within city limits in 9 months.

Ky., Scottsville—F. E. Scott, 120 N. Lawndale Ave., Kansas City, Mo., reported, has natural gas franchise.

La., Lake Charles—Sabine Petroleum Corp., Moss Bldg., let contract to J. O. Davis, 2119 S. Ryan St., for drilling well in Starke oil field. See Want Section—Machinery and Supplies.

La., New Orleans—Bayou Dinde Oil Co., Inc., capital \$100,000, chartered; E. Claude House, 303 Alvin St., Lake Charles.

La., Winnsville—Franklin Oil & Gas Co., Inc., chartered; J. H. Trousdale, 117 Hudson Lane, Monroe.

Md., Baltimore—Standard Oil Co. of New Jersey, 26 Broadway, New York, erect steel tank, Toome and Haven Sts.; cost \$15,000; owners, architects and builders.

Md., Baltimore—Island Export Co., Keyser Bldg., leased site in Canton; erect oil plant; Walter Pagon, Archt., 114 St. Johns Rd., Baltimore.

Md., Rockville—Phillips Co., subsidiary of Phillips Petroleum Co., General Motors Bldg., Detroit, Mich., contemplates erecting distributing station.

Missouri—Missouri-Kansas Pipe Line Co., 1004 Baltimore Ave., Kansas City, plans large program of expansion; company operates in Kansas, Missouri, Kentucky and Illinois.

N. C., Hendersonville—Carolina Central Gas Co., 306 N. Main St., Byron T. Gifford, 22 W. Monroe St., Chicago, Ill., let contract to Butane Gas Installation Co., 22 W. Monroe St., Chicago, Ill., for plant; install compressors, regulators, blowers, etc.; erect tank; build 25 mi. 3-in. and 2-in. gas lines. 1-16

N. C., Raleigh—Raleigh Gas Co. erect \$75,000 gas storage tank.

N. C., Spruce Pine—Tri-County Oil Co. incorporated; A. W. Smith, A. M. Fuller.

Okla., Mulhall—Logan Gas Co., Guthrie, reported, granted natural gas franchise.

Okla., Oklahoma City—Tidal Oil Co., 602 S. Cheyenne St., Tulsa, reported, plans 6-in. oil pipe line from here to company's pipe line station near McLoud.

Okla., Seminole—Gold Oil Co., capital \$20,000, incorporated; Dr. C. S. Frank, C. Frank.

Tenn., Columbia—Tennessee Gas Co., subsidiary of Utilities Gas & Electric Co., 22 W. Monroe St., Chicago, Ill., reported, applied for gas franchise.

Texas—Community Natural Gas Co., Dallas, reported, construct plant at Deport, Fulbright and Bogata.

Tex., Beaumont—Magnolia Petroleum Co., Magnolia Bldg., Dallas, reported, constructing power plant for refinery; steel and brick; 142x160 ft.; install 6 water tube boilers; and two 7500 kw. turbines; J. G. White Engineering Corp., 43 Exchange Place, New York, in charge of design and construction, represented by J. S. McLean, Supervising Engr.; Jackson & Moreland, 31 St. James Ave., Boston, Mass., Asso. Engrs. 2-28-29

Tex., Breckenridge—Lone Star Gas Co., 1915 Wood St., Dallas, reported, construct 10 unit booster station near Brad; has site on Hobart lease near Breckenridge-Fort Worth Rd.; cost \$100,000; T. N. Jenkins, Ch. Engr.

Tex., Cisco—Hutton Oil Corp., capital \$75,000, incorporated; A. A. Hutton, C. Clark.

Tex., Hereford—Southern Union Gas Co., American Exchange Bank Bldg., Dallas, reported, construct gas pipe line from here to Farwell. 11-28

Tex., Houston—Humphreys Corp., Esperon Bldg., reported, construct 80,000 bbl. steel storage tank on Barbers Hill.

Tex., Marshall—Dixie Gas & Fuel Co., W. H. Langston, Dist. Mgr., reported, plans \$100,000 construction program; lay 17 mile gas mains on various streets.

Tex., McCombs—Shell Petroleum Co., Shell Bldg., St. Louis, Mo., reported, negotiating for 8-in. pipe line from McCombs to Taylor-Link pool from Landreth Production Co.

Va., Bluefield—Town Council, reported, granted franchise to Bluefield Gas & Power Co., Bluefield, W. Va.; furnish gas from Bozo gas fields.

Va., Clifton Forge—J. F. Curry, representing United Fuel & Gas Co., subsidiary of Columbia Gas & Electric Co., 61 Broadway, N. Y., reported, granted gas franchise; gas to come from field in Floyd County, through West Virginia area, 85,000 acres under lease; surveys have reached Lexington; work of construction will begin in April, beginning at 3 different points, 22-in. main will come within 9 miles of Clifton Forge; gas to be piped to city through 8-in. branch line; towns of Alderson, Lewisburg and Covington, passed ordinance granting gas franchise; Roncette, W. Va., has franchise under consideration. 12-12

Va., Norfolk—Tidewater Oil Co., A. J. Young, Dist. Mgr., Flatiron Bldg., reported, acquired 23 acre site at Money Point for erection oil tanks, etc.; expend \$250,000.

Ice and Cold-Storage Plants

Ark., Booneville—Ward Industries, Fort Smith, C. B. Curry, Local Mgr., rebuilding ice plant; fireproof, built-up steel and sheet metal roof, conc. floors, steel sash, brick; remodel interior, redecorate; private plans.

Ark., Forrest City—Arkansas Power & Light Co., Pine Bluff, plans erecting \$50,000 ice plant.

Ga., Atlanta—J. P. Persons & Son, Griffin, let contract to Arthur Pew, Jr., Red Rock Bldg., for \$10,000 ice plant; 1 story, 47x100 ft., conc. foundation, brick, comp. roof; plans by York Ice Machinery Co., 412 Houston St., N. E., Atlanta.

Ga., Butler—Butler Ice & Cold Storage Co., erect addition to double capacity of plant, and install machinery.

La., Lusher—Louisiana Ice & Utilities, Inc., opens bids Jan. 30 at Baton Rouge office for ice and power plant; 1 story, brick, conc., steel, 70x90 ft., 35 ft. high, pile foundation, conc. floor, cork insulation, steel sash, steel and iron roof, sheet metal work, paving; Sam P. Stone, Jr., & Co., Archts., Masonic Temple Bldg., New Orleans. 1-9

La., Mangham—Murray Hudson, Paul Fudicker and Fred Fudicker plan \$40,000, 10-

or 15-ton ice plant; install modern machinery; call bids from Monroe contractors at once; Mangham Ice Co., Inc., being formed, with Paul Fudicker, Pres.

La., New Orleans—Crescent City Ice Co., Henry Nordman, Engr., 4008 Howard St., let contract to Henri G. DeFrait, 304 Camp St., for alteration and additions to plant, 408 Howard Ave.; steel work let to Canal Steel Works, Inc., 2126 Poland St.

Miss., Ellisville—H. F. Townley and J. M. Townley, both Piedmont, Ala., now at Grisham Hotel, Ellisville, started erecting 10-ton ice plant; 40x60 ft.

Mo., Dixon—Dixon Ice & Cold Storage Co., install new equipment.

N. C., Charlotte—Union Storage & Warehouse Co., 924 Morehead St., reported, erect \$450,000 addition to plant.

N. C., Greensboro—Southern Public Service Co., H. DuPont Baldwin, V.-Pres. and Gen. Mgr., Greensboro Bank and Trust Co. Bldg., soon erect cold-storage plant.

S. C., Greenville—Citizens Ice Co., erecting 15-ton ice plant.

Tex., Harlingen—Central Power & Light Co., Frost Natl. Bank Bldg., let contract to W. A. Velten Construction Co., Brownsville, at \$69,199, for cold-storage plant; 3 story and basement, rein. conc. brick, tile, cast stone; John M. Marriott, Archt., Frost Natl. Bank Bldg., San Antonio. 1-9

Tex., Livingston—Livingston Ice Co., plans enlarging plant and installing new equipment.

Tex., McKinney—William McKemie, Jr., and associates started erecting ice plant.

Tex., Raymondville—Mill & Morton, Brownsville, erect \$30,000, 15-ton ice plant.

Tex., San Antonio—Following have sub-contracts in connection with dry storage warehouse, 300 block N. Medina St., of Scobey Fireproof Storage Co., F. E. Scobey, Pres., 311-315 N. Medina St.: Wiring, Loyd-Peale-Wittmar Electrical Co., 1205 E. Houston, St.; plumbing, Jud & Ormond, 703 N. Flores St.; 20,000-gal. tank, Jud & Ormond; sprinkler system, Grinnell Co., Santa Fe Bldg., Dallas; McKenzie Construction Co., Smith-Young Tower, Gen. Contr.; Engineering Service Corp., Engr., Post Dispatch Bldg., Houston. 12-19

Tex., Whitesboro—City defeated \$15,000 bonds for ice plant.

W. Va., Romney—National Fruit Products Co., Woodward Bldg., Washington, D. C., plans cold-storage warehouse. (See Miscellaneous Enterprises, 11-28)

Iron and Steel Plants

Md., Baltimore—Rustless Iron Corp. of America, Ronald Wild, V.-Pres., Loney Lane and Pennsylvania R. R. manufacturing rust and heat resisting chrome iron alloys, plans \$5,000,000 to \$10,000,000 plant in near future in Baltimore or some Western city; increase production of plant producing 12,000 to 15,000 tons annually to 100,000 tons annually.

Land Development

Ark., Fort Smith—United Cemeteries, of Arkansas, Inc., First Natl. Bank Bldg., Wm. F. Plowfield, Pres., Topeka, Kans., develop Rose Lawn Cemetery 120 acres on Waldron Rd. and O Sts.; entrance gate of native stone; superintendent's home, administration building, etc., will be erected; expend \$40,000; E. E. McCracken, Landscape Engr.; Haralson & Nelson, Archts., Merchants Bank Bldg.

Fla., Coconut Grove—Dade County Commrs., Miami, reported, develop 100 acres for park.

Fla., Fort Myers—L. S. Matthews, reported, interested in development orchid farm.

Fla., Groveland—Charles J. Anderson developing subdivision; A. P. Gibson, Civil Engr., Clermont.

Fla., Jacksonville—Rio May Holding Co., incorporated; G. W. Milam, Greenleaf Crosby Bldg.

Mo., Kansas City—H. V. Smith & Siemens Corp., capital \$50,000, incorporated; H. V. Smith, 63rd & Brookside Sts.

Mo., St. Louis—Bennett Realty Co., incorporated; Charles Bennett, 1614 Clara St.

Mo., St. Louis—Lake Forest Development Co., developing subdivision at Clayton & Hanley Rds.; grade, lay sidewalks, work to begin in April; install complete sewerage system; ornamental entrance gates; water, gas, etc.

Mo., St. Louis—Tannahaser Club Realty Co., incorporated; John H. Miles, 3229 Minn. St.

Mo., St. Louis—Thomas J. Johnson Realty Co., 5003 Gravois Ave., incorporated; Thomas J. Johnson.

Mo., St. Louis—Arhen Realty & Investment Co., incorporated; Arnold J. Fleer, 2937 Clearview Drive.

N. C., Asheville—Bledsoe Realty Co., incorporated; L. Taylor Bledsoe, 16 Government St.

N. C., Charlotte—City, reported, improve Elmwood Cemetery; city engineer drafting plans.

S. C., Columbia—Mutual Development Co., capital \$20,000, incorporated; K. W. Hollingsworth, W. H. Price, 308 Center St.

Tenn., Dayton—Jesse C. Henderson, 1327 Riverview Rd., Chattanooga, reported, acquired 267-acre fruit farm.

Tex., Austin—See Sewer Construction.

Tex., Austin—City, reported, expend \$15,000 developing Fruth's Addition for park; Jac Gubbels, City Landscape Engr.

Tex., El Paso—Hill & Jagoe Real Estate Co., capital \$20,000, incorporated; John H. Jagoe, 2715 Federal St.

Tex., Houston—Fairfield Development Co., incorporated; G. N. Copley, 17 Shadowlawn Drive.

Tex., San Benito—City and Ed Brady, reported, interested in development of golf course on park site north of town.

Va., Clarendon—Heston Land & Improvement Co., incorporated; Ashby Williams, 1001 15th St., N. W., Washington, D. C.

Va., Norfolk—D. E. Keisler & Co., incorporated; D. E. Keisler, 203 W. Berkley Ave.

W. Va., Huntington—Interstate Realty Co., capital \$25,000, incorporated; S. S. McNere, Robson & Pritchard Bldg.

Lumber Enterprises

Fla., Arcadia—Gulf Lumber Mfg. Co., incorporated; H. T. Davis, F. R. McConnell.

La., Morgan City—Loeb & Schreier, Inc., chartered; Sol Loeb, Paul Schreier.

Miss., Laurel—Eastman-Gardiner Hardwood Co., Charles Green, Pres., started clearing site for rebuilding mill; install modern sawmill machinery.

N. C., Lincolnton—Seth Lumber Co., capital \$100,000, incorporated; J. M. Beam, Vale; C. T. Haase, Lincolnton.

Tex., Dallas—Dallas Lumber Co. changed name to C. R. Berry Lumber Co.; C. R. Berry, 6006 Fremont St.

Tex., San Angelo—Clay Lumber Co., Stephenville, acquired G. E. Pratt Lumber Co., 112 W. Ave. D.

Va., Meadowview—Jackson Mfg. Co., W. N. Jackson, Pres., rebuild lumber and building material plant recently burned. See Want Section—Machinery and Supplies.

Metal-Working Plants

Md., Cumberland—N. & G. Taylor Co., Inc., capital \$700,000, incorporated; manufacture black plate, tin sheets and other metal products; Huntington Cairns, Baltimore Tr. Bldg., Baltimore.

Mining

Ga., Winder—J. R. Austin plans organizing company and opening quarry to develop extensive granite deposits.

Mo., Webb City—Todd Land Co., J. F. Todd, started developing 2000 acres for lead, zinc and farming purposes.

Tenn., Centerville—Armour Fertilizer Works, 111 W. Jackson Blvd., Chicago, Ill., with plant near Centerville, start mining operations in near future at phosphate rock deposit between Centerville and Columbia.

Tenn., Crossville—Crab Orchard Stone Co., operating quarry 4 mi. east of here, extending activities; stripping and preparing 2 acres to extend quarry face.

Tenn., Manchester—Manchester Lime Co. plans erecting \$40,000 storage and distributing plant, including mechanical handling and other equipment; P. A. Striver, Plant Mgr.

Miscellaneous Construction

Ark., McCrory—White River Levee Dist. of Woodruff, Prairie & Monroe Counties, Bd. of Commrs. has appropriations approved by War Dept., Washington, for repairing levees damaged by floods; \$39,000.

Ga., Macon—City, G. Glen Toole, Mayor, votes Feb. 18 on \$150,000 bonds for incinerator and garbage collection equipment.

Louisiana—U. S. Engr. Office, foot of Prytania St., New Orleans, opens bids Feb. 19 for following earthwork, designated as follows by district, name, location, estimated net yardage: Straight contracts—Lower Tensas Levee Dist.; Bayou Vidal-Elkridge, 630R, 600,000; Atchafalaya Levee Dist.; Arbroth, 814R, 270,000; Rose Hill, 816R, 610,000; Port Allen, 833R, 280,000; Plaquemine, 854R, 205,000; Pontchartrain Levee Dist.; Gypsy, 933L, 430,000; Bois Blanc, 933L, 210,000; South Bank Red River; Ufautier, 97 to 98 mi. above mouth of Red River, 425,000; Continuing contracts—Lower Tensas Levee Dist.; Bayou Vidal-Elkridge, Lot 1, 620R, 2,200,000; Bayou Vidal-Elkridge, Lot 2, 625R; Bayou Vidal-Elkridge, Lot 3, 630R, 2,180,000.

La., New Orleans—Bd. of Commrs., Orleans Levee Dist., New Orleans Court Bldg., has low bid from John Riess, New Orleans Bank Bldg., at \$357,800 for constructing locks in New Basin Canal, south of Robert E. Lee Blvd., and in Bayou St. John, south of Hibernia Ave.; W. B. Davey, Acting Ch. Engr. 12-12.

La., Shreveport—Caddo Levee Dist. Commrs. instructed Bd. of State Engrs. to prepare plans and call for bids for about 1000 ft. levee construction at Miller's Bluff, Red River, Caddo Parish, involving approx. \$50,000.

Maryland—See Drainage.

Md., Chesapeake Beach—Chesapeake Beach Ry. Co., L. H. Landis, Gen. Mgr., Barr Bldg., Washington, D. C., plans calling bids upon receiving authority from Interstate Commerce Comm., Washington, for ferry service across bay, including constructing causeway and pier 2000 ft. long and approx. 120 ft. wide, and driving mooring piles for distance of 200 ft. beyond same, on Chesapeake Beach side; corresponding causeway and pier somewhat similar to be installed on Eastern Shore side; piers and wharves of creosoted lumber; floating equipment to consist of Diesel-electric drive double end screw passenger and auto ferry boats, 256 ft. long, 66 ft. wide, with capacity of 95 automobiles on lower deck, and 1500 passengers on upper deck; boats to be constructed in accordance with owners' specifications. (See Miscellaneous Enterprises, 1-9.)

Missouri—U. S. Engr. Office, Postal Telegraph Bldg., has low bid from Ervin Bourgois, Bismarck, N. D., at \$39,593.05, for 2000 lin. ft. standard revetment and 400 lin. ft. repairs to standard revetment, Missouri River, Ft. Berthold Reach and Deapolis Bend. 12-26

Miss., Pascagoula—Mayor and City Council let contract to Allie Ladnier & Co., Pascagoula, for pier and pavilion on beach front; 1000 ft. long; F. H. McGowen, Const. Engr., Ocean Springs. 1-9

Mo., Kansas—Eagle Elevator Co., Bd. of Trade Bldg., started constructing grain elevator, East Bottoms Dist., costing over \$400,000; 1,000,000 bu. capacity.

Oklahoma—Frank H. Reed, Neosho, Mo., donated \$50,000 additional to Permanent Community Trust Fund with which wading pools in Oklahoma, Kansas and Missouri are to be constructed; include Eufaula, McAlester, Lawton, Holdenville, Cushing, Grandfield, Salpula, Sand Springs.

Tex., Austin—City plans letting contract in February for abattoir.

Tex., Brownsville—City Comm. may issue \$100,000 bonds, \$50,000 to \$60,000 for incinerator.

Miscellaneous Enterprises

Ala., Anniston—Swann Research, Inc., capital \$250,000, formed here by Theodore Swann, Pres., Swann Corp., Brown-Marx Bldg., Birmingham, to coordinate and unify development and research activities of various subsidiaries of Swann Corp.; subsidiaries manufacture chemicals, etc. (See Birmingham, 3-21.)

Ala., Birmingham—Birmingham Rubber Products Co., Joseph F. Keuch, Gen. Mgr., acquired plant and properties of former Birmingham Tire & Rubber Co.; installing new equipment and making improvements to plant, North Birmingham, to be in operation about Mar. 1.

Fla., Miami—Contracting and Building—Johnnie Moore Co., incorporated; Benj. Axelroad, 1st Nat'l Bank Bldg.

Fla., St. Petersburg—Florida Consolidated Nurseries Corp., incorporated; C. M. Hall, 600 Bayou Blvd.

Ky., Bardwell—G. W. Payne, Pres., Bardwell Bld. of Trade, interested in establishing \$80,000 milk plant; George Howard and Robert Finley, representatives of company planning erection.

Ky., Franklin—Alvis G. Hunt and Elbridge Biggs, both Franklin, acquired plant of Franklin Favorite, newspaper.

Ky., Irvine—Big Bill Mfg. Co. plans addition to overall plant; manufacture work shirts, work pants and gloves in addition to overalls now manufactured.

Ky., Louisville—French Hand Laundry, capital \$25,000, incorporated; John Buechel, Louisville Trust Bldg.

Ky., Newport—Ohio Valley Nehl Bottling Co., capital \$35,000, incorporated; Harry E. Gibson, Forrest Williams.

La., Homer—Claiborne Parish Co-operative Creamery let contract to F. C. McClanahan, Homer, for annex to creamery for manufacturing ice cream; install modern fixtures and 50-qt. direct expansion ice cream freezer, with capacity of 100 gal. hourly.

La., Jennings—Chamber of Commerce entered into agreement with C. F. Schleef, Hammond, to establish ice cream plant; tentative plans call for installing plant in George B. Ziegler warehouse, Lake Arthur Ave.

La., New Orleans—Frozen Packages, Inc., capital \$25,000, chartered; Harry W. Brimer, 1729 St. Charles St.

La., Opelousas—Sam Bertheaud erect \$10,000 creamery.

La., Shreveport—Usrey Candy Corp., incorporated; A. C. Steere, Slattery Bldg.

Md., Baltimore—Jersey Ice Cream Co., 1726 E. Pratt St., let contract to Harry Feldman, 1701 Warwick Ave., for \$26,000 plant; 40x64 ft.

Md., Baltimore—Western Electric Co., 195 Broadway, New York, start work on initial group of 6-story buildings, adjacent to Broening Hwy., at northern extremity of the property, containing about 750,000 sq. ft. of floor space, in 1930; the size of the structures precludes their completion before the middle of 1931.

Md., Chesapeake Beach—See Miscellaneous Construction. 1-9

Md., Salisbury—Red Star Line, operating passenger bus lines on Eastern Shore, connecting ferries and trains, acquired Victor Lynn Transportation Company and connecting motor-truck lines, operating daily freight-boat service from Salisbury, Wicomico River points and Baltimore, with connecting motor-truck services at both terminals, subject to approval of Maryland Public Service Comm., Baltimore.

Miss., Gatesville—Gatesville Gravel Co., capital \$15,000, incorporated; C. E. Fairley, Hattiesburg; George H. Smith, Crystal Springs, Miss.

Mo., Excelsior Springs—Excelsior Springs Laundry Co., capital \$15,000, incorporated; A. O. Long, 610 W. 67th St., Kansas City; Byron C. Henges, Excelsior Springs.

Mo., Ferguson—Universal Match Co. plans rebuilding part of burned plant.

Mo., Kansas City—Superfecto Laboratories, Fifth and Wyandotte Sts., capital \$14,907.33, incorporated; L. H. Nielson, 4216 Brooklyn St.

Mo., Memphis—Scotland County Hatchery, Inc., chartered; K. I. Miller, W. F. Bunch, both Lancaster.

Mo., Richmond—Home Dairy Co., 31005 Gillham St., Kansas City, may erect pre-cooling plant.

Mo., St. Joseph—Lee Mfg. Co., capital \$50,000, incorporated; James E. Cox, 2732 Felix St.; wearing apparel.

Mo., St. Louis—Frank Yawitz Realty Co., 2333 Olive St., erect film exchange, 3010 Olive St.; 1 story and basement, 61x125 ft., cone, foundations, terra cotta front, plate glass, copper settings, metal clad doors, automatic bank vault doors, built-up, asphalt roof, steel sash; build by sub contract; taking bids; no closing date set.

Mo., St. Louis—Murray Shoe Co., Inc., 1327 Washington Ave., capital \$25,000, chartered; Murray J. Rosenthal, 1327 Washington St.

Mo., St. Louis—Block Drug Co., 220 36th St., New York, acquired Autikamnia Remedy Co., 1606-1608 Pine St., manufacturing Antikamnia, headache and neuralgia remedy.

Mo., St. Louis—St. Louis Asphalt Co., W. M. Stringer, Pres., 19 S. Broadway, has plans drawn for alterations and addition to office, 2626 Chouteau Ave.; 1 story, brick; W. J. Beattl, Archt., Frisco Bldg.

Mo., St. Louis—Westinghouse Electric & Mfg. Co., Andrew W. Robertson, Chmn. of Bd., East Pittsburgh, Pa., with plant here, reported, expend \$10,000,000 in 1930 for plant improvement.

Mo., St. Louis—St. Louis Fire & Marine Insurance Co., Chris J. Muckerman, Pres., organized for General Insurance, Inc., with \$200,000 paid in capital.

Mo., St. Louis—Rice-Stix Dry Goods Co., E. W. Stix, Pres., 1002 Washington St., probably install machinery in another building to replace trunk plant burned with \$90,000 loss.

Mo., University City—Community Publishing Co., capital \$15,000, incorporated; H. A. Bartwig.

N. C., Albemarle—E. E. Snuggs now erect \$25,000 building; Foremost Dairy Products, Inc., Lessee, Jacksonville, Fla. 12-19

Okla., Ada—N. T. Cochran, Petroleum Bldg., Oklahoma City, having preliminary plans prepared for constructing \$25,000 ice cream plant.

Okla., Tulsa—H. J. Renner, Christopher, Ill., acquired plant of Orange Crush Bottling Co., 415 N. Elwood Ave., E. B. Rea, Christopher, to be manager; enlarge plant.

Okla., Tulsa—Banfield Bros. Packing Co., 915 E. Apache St., increased capital, \$1,000,000 to \$1,100,000.

S. C., Spartanburg—Taylor-Colquitt Co., W. P. Couyers, Jr., Treas., Montgomery Bldg., advises regarding expanding plant near city, engineering and construction work being done by owner and equipment purchased. 1-2

Tenn., Chattanooga—Chattanooga Belting Supply Co., 1221 Market St., capital \$50,000, incorporated; Gladys Atwell Anderson.

Tenn., Knoxville—Seven Springs Bottling Co., V. L. Denton, erect plant addition of 2000 sq. ft. floor space, install new machinery, costing \$7000 and add 2 heavy trucks to fleet within near future.

Tenn., Maryville—Smart Maid Dress Co., M. Sisk, Pres., recently organized, leased space, ain St., for plant and will begin operations about Feb. 1; machinery purchased.

Tenn., Memphis—Following have sub-contracts for \$300,000 bakery, Cleveland and Larkin Sts., of C. J. Patterson Corp., 36 N. Third St.; steel sash, Carter-Walters Corp., 2049 Main St.; screens, Higgins Mfg. Co., Stone Co., 2082 Elzey St.; Campbell-Taggart Associated Bakeries, Inc., Lessee, Kansas City, Mo.; Fogel Construction Co., Reliance Bldg., Kansas City, Mo., Gen. Contr.; private plans. 12-26

Tenn., Memphis—Eugene Buffa, 879 Philadelphia St., acquired 4 acres, Central Ave., for flower farm, including green houses and other equipment.

Tenn., Memphis—General Contracting—H. A. McGuire, 820 Derman Bldg., capital \$50,000, incorporated; H. A. McGuire.

Tenn., Nashville—Jarman Shoe Co., Gallatin Ave., acquired large lot west of plant, Gallatin Ave.; probably erect plant.

Tenn., Watauga—Watauga Sand & Gravel Corp., recently organized, has option on 75 acres sand and gravel deposits; erect plant.

Tenn., Watertown—Stephens-Huffins Mfg. Co., Col. Bob Smith, let contract to Independent Construction Co., Nashville, for rebuilding shirt plant; 75x110 ft., daylight roof; install 150 machines; employ about 175; to be complete Feb. 1.

Tex., Dallas—Southern Old Line Life Insurance Co., C. C. Slaughter, Pres., Wilson Bldg., increasing capital, \$100,000 to \$200,000.

Tex., Dallas—Keen Line Mfg. Co., capital \$20,000, incorporated; R. C. Labenski, 4318 McKinney St.

Tex., Dallas—Southern Aircrafts Studios, Inc., capital \$15,000, chartered; G. R. Wimbish, 3015 Fairview St.

Tex., Dallas—Universal Laboratories, 114 S. Beckley St., let contract to T. R. Peacock, 931 Turner St., at \$28,475, for building, Browder St. between Young and Marilla Sts.; 3 story, brick, stone, rein. conc., 65x170 ft.; taking bids on sprinkler system; J. A. Pitzinger, Archt., Southwestern Life Bldg.

Tex., Fort Worth—Bennett Organ Co., R. J. Bennett, Pres., Rock Island, Ill., plans moving plant here, manufacturing pipe organs for churches, homes and auditoriums.

Tex., Fort Worth—Modern Laundry, capital \$45,000, incorporated; Littleton Harwell, 509 S. Henderson St.

Tex., Galveston—American Fire & Marine Insurance Co., 2326 B St., increased capital stock, \$600,000 to \$1,000,000.

Tex., Georgetown—Armour & Co., U. S. Stock Yards, Chicago, Ill., plans installing additional units; cheese plant, acquired from Carl A. and Tom E. Nelson, to be enlarged; later second story to be placed on building.

Tex., Houston—William A. Smith Construction Co., Inc., capital \$50,000, chartered; William A. Smith, 5600 Canal St.

Tex., Houston—Texas Construction Material Co., Petroleum Bldg., reported, increasing capital stock, \$800,000 to \$1,000,000.

Tex., Pampa—Gray County Creamery Co. started excavating for \$18,000 creamery.

Tex., Pecos—Hubbs Printing Co., capital \$30,000, incorporated; Barney Hubbs, Fancher Bell.

Tex., Sherman—Womack Henning Construction Co. changing name to Womack Henning & Rollins, Inc.

Tex., Waco—Fisher Hotshop Bakery, Inc., 11th and Austin Sts., let contract to J. E. Johnson Construction Co., 2407 Colcord Ave., for \$125,000 bakery, Mary and 17th Sts.; 2 story; Roy E. Lane, Archt., Colgin Bldg.

Va., Hopewell—Hopewell Bakery, Inc., capital \$15,000, chartered; R. A. Huffman, 617 Prince Henry St.

Va., Norfolk—Paramount, Inc., capital \$15,000, chartered; T. J. Anderson, 3300 Colonial Ave.; laundering, cleaning and renovating.

Va., Suffolk—Suffolk Peanut Co. may rebuild auxiliary plant in 1930 recently burned with \$50,000 loss.

W. Va., Diamond—Clayco Co., recently acquired by Carbide & Carbon Chemical Corp., Charleston, let contract to H. K. Ferguson Co., Hanna Bldg., Cleveland, Ohio, for addition to plant manufacturing propane, a fraction of gasoline, used as base in certain manufacturing processes at carbide and carbon plants.

Motor Bus Lines and Terminals

Md., Baltimore—See Street Railways.

Miss., Canton—Pickwick Greyhound Lines, Inc., Sixth and Los Angeles Sts., Los Angeles, Calif., authorized by Mississippi Railroad Comm., Jackson, to operate bus line, Grenada to Canton.

Okla., Enid—Enid Building & Investment Co. let contract to D. C. Bass & Sons, for \$20,000 bus station.

W. Va., Logan—Logan-Pineville Bus Co., capital \$25,000, incorporated; G. R. Claypool, C. L. Morgan; operate lines between Pineville and Logan.

Railways

Ala., Mobile—Gulf, Mobile & Northern R. Co., P. E. Odell, V.-Pres. and Gen. Mgr., advises 1930 program will involve approx. \$2,500,000, including new freight and passenger equipment, new rail and ballast.

Ga., Savannah—Central of Georgia Ry. Co., A. E. Clift, Pres., reported, expend over \$20,000,000 in 1930 for improvements, replacements and operating expenses; \$2,000,000 for additions and betterments; \$1,000,000 for purchasing 550 freight cars; purchase minimum of 5000 tons 90-lb. rails; orders for material and equipment placed with Southern manufacturers.

La., Bogalusa—New Orleans Great Northern R. R. Co., D. T. Cushing, Asst. Treas., recently acquired by Gulf, Mobile & Northern R. R. Co., I. B. Tigrett, Pres., Mobile, Ala., reported, depend over \$1,000,000 improving rolling stock, tracks and other equipment; \$400,000 for building 200 gondola, 50-ton capacity freight cars, material to be purchased and cars built in Bogalusa shops; \$250,000 for improving passenger service, including large gas-electric motor cars and several steel passenger coaches; \$100,000 on roadways; \$50,000 for constructing new telegraph and telephone lines.

Md., Baltimore—Baltimore & Ohio R. R., W. S. Galloway, Pur. Agt., ordered 85,000 tons steel rails; 22,000 tons from Bethlehem Steel Corp., Bethlehem, Pa.; 52,000 tons, Carnegie Steel Co., Carnegie Bldg., Pittsburgh, Pa.; 6000 tons, Illinois Steel Co., 2081 La Salle St., 5000 tons, Inland Steel Co., 38 S. Dearborn St., both Chicago, Ill.

Mo., St. Louis—Chicago, Burlington & Quincy R. R. Co., J. R. Haynes, Pur. Agt., Chicago, Ill., ordered 500 automobile cars from Pressed Steel Car Co., Farmers Bank Bldg., Pittsburgh, Pa.; will build 50 flat cars of 40-ton capacity and 50 flat cars of 50-ton capacity at own shops; will purchase 10 baggage cars.

Mo., St. Louis—Missouri Pacific R. R. Co., W. A. Hopkins, ordered 10 coaches from St. Louis Car Co., 8000 N. Broadway, St. Louis.

Okla., Marion—Oklahoma City-Ada-Atoka Ry. Co., C. Kaighn, Ch. Engr., Muskogee, applied to Interstate Commerce Comm., Washington, for permission to construct 71 mi. extension of line, Oklahoma County, and to acquire control of Oklahoma City-Shawnee Interurban Ry. by stock purchase. 12-12

S. C., Brownsville—Bennettsville & Cheraw R. R. Co., J. R. Page, V.-Pres., Bennettsville, authorized by Interstate Commerce Comm. to operate line of railroad, Brownsville, southeasterly to Sellers, 10.4 mi.; line to be acquired from lumber company.

Texas—Southern Pacific Co., T. W. Taylor, Pur. Agt., San Francisco, Calif., advises placed following orders for 1930 delivery. Rail—Colorado Fuel & Iron Co., 60,000 tons; Bethlehem Steel Co., Bethlehem, Pa.; 28,991 tons; U. S. Steel Products Co., 28,992 tons; Manganese Rail Co., both 30 Church St., New York, 2000 tons; locomotives—Baldwin Locomotive Works, Philadelphia, Pa., 25, 4-4-2 type and 14, 4-8-4 type; freight cars—Pressed Steel Car Co., Farmers Bank Bldg., Pittsburgh, Pa., 300, 50-ft. all-steel automobile cars; Ralston Steel Car Co., 100, 50-ton gondola cars, drop end. 1-2

Tex., San Angelo—Gulf & West Texas R. R., R. W. Morrison, Pres., 239 W. Mistletoe St., San Antonio, authorized by Interstate Commerce Comm., Washington, to construct 113 mi. of new line, extending, Fredericksburg through Mason to Brady and Eden to San Angelo, upon condition that company files application and receives permission for authority to operate under trackage rights, or otherwise, over existing line of Gulf, Colorado & Santa Fe Ry. between Brady and Eden, or to construct new line between these points; cost of construction, reported, involves \$6,825,665, \$5,227,665 for construction work; \$325,000 for equipment, \$300,000 for working capital and about \$900,000 for acquiring and reconditioning Fredericksburg & Northern Ry.; in addition to this, expend \$347,953 for reconditioning line of San Antonio & Aransas Pass Ry., between San Antonio and Fredericksburg Junction, and \$175,928 for reconditioning line of Gulf, Colorado & Santa Fe Ry. in event that line is used. 11-14

Va., Norfolk—Seaboard Air Line Ry. Co., W. M. Portlock, Pur. Agt., ordered 8 locomotives of 2 10-0 type from Baldwin Locomotive Works, Philadelphia, Pa.; will purchase 1000 single sheathed box cars of 40-ton capacity.

W. Va., Newhall—Norfolk & Western Ry. Co., W. P. Wiltsee, Ch. Engr., Roanoke, Va., authorized by Interstate Comm., Washington, to construct 7-mi. extension in McDowell County, W. Va., and Tazewell County, Va., from near Newhall up Jacob's Fork and Horsepen Creek. 11-7

Railway Shops and Terminals

Ala., Mobile—Louisville & Nashville R. R., W. H. Courtenay, Ch. Engr., Louisville, Ky., erect coke handling plant in connection with coal tipples already established; work to start in about 30 days.

W. Va., Peach Creek—Chesapeake & Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, Va., let contract to Esker W. Waugh, Huntington, for roundhouse, foreman's office and tool room. 9-12-29

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Alabama—Dept. of Agriculture, Washington, D. C., approved proposed appropriation of \$1,000,000 to rehabilitate roads and bridges in Alabama, damaged or destroyed by floods of last year.

Alabama—State Highway Comm., Montgomery, preparing plans for highway extending from Alabama-Florida line at Dixonville to Brewton, Ala., to connect with new highway, recently completed, through Santa Rosa County.

Ala., Birmingham—City Comm., plans expending \$60,220 to pave Vanderbilt road, Hale Ave. and Sixteenth Ave.; widen Sixth Ave. South, about 8 ft., from Twentieth to Twenty-seventh St.; A. J. Hawkins, City Engr.

Ala., Birmingham—City Comm., receives bids Jan. 28 for paving Bessemer road, from Thirtieth St. to Ave. V. Ensley, cost about \$114,300; pave parkways on Sixth Ave., cost about \$9,650; sanitary sewers in East Lake, \$49,750; A. J. Hawkins, City Engr.

Ala., Jasper—State Highway Comm., Montgomery, and Walker County Bd. of Revenue considering 35 mi. Jasper-Cullman road; Walker County Bd. of Revenue will build route to Cullman County line and erect bridge across Sipsey River, near Parker's Ferry; State will survey road, routing it by way of Boldo and Parker's Ferry; State Highway Comm., making survey for Jasper-Double Springs road, link of Great Southway; R. D. Jourdan, State Highway Engr.

Ark., Dermott—Bd. of Comms. Street Improvement Dist. No. 2, H. C. Burke, considering grading, draining, curbing, gutters, paving, Peddicord, Norwood and Knox St.

Ark., Fayetteville—City, T. S. Tribble, Mayor, plans sidewalks on Maple St., Lincoln to Wilson Ave.; J. C. Masie, Clk.

Ark., Mena—City Council plans expending about \$110,000 for 55 blocks conc. paving in residential section.

Ark., Morrilton—State Highway Dept., Little Rock, plans during 1930 to rebuild U. S. Highway No. 64 with conc. slabs across Conway County; eliminate 2 railroad crossings; C. S. Christian, State Highway Engr.

Fla., La Belle—State Road Dept., Tallahassee, probably place marl and surface on road between La Belle and Clewiston, Hendry County; B. M. Duncan, State Highway Engr.

Fla., Pensacola—City Commrs. received low bid from Noonan Construction Co., E. Lloyd St., \$1.84 per sq. yd. for 44,000 sq. yd. plan cement pavement, or \$2.09 per sq. yd. for rein. cement paving, 30,000 lin. ft. curbing; Adrian Langford, Commr. of Streets and Public Works. 1-16

Georgia—State Highway Bd., East Point, plans improving route from Atlanta through Athens, to South Carolina State line; letting contract to pave route between Atlanta and Athens; improving bridges between Athens and Hartwell and between Athens and Macon.

Ga., Fort Benning—War Dept., Construction Quartermaster, Lieut. W. M. Allison, plans receiving bids within 60 days for 7,000 yd. conc. paving in Cuartel area. 12-26

Ga., Macon—City, G. Glen Toole, Mayor, plans expending \$300,000 for paving and \$100,000 for street widening. See Financial News Columns. 12-12

Louisiana—Louisiana Highway Comm., Baton Rouge, receives bids Feb. 25 for 9 roads: Madison Parish—10 mi., Dixie-Overland Highway, Tallulah to Mounds; Lincoln and Ouachita Parishes—6 mi., Dixie-Overland Highway, Calhoun to Tremont; Natchitoches and Winn Parishes—15 mi., Jefferson Highway, Cofax to Rapides-Grant Parish line; 6 mi., Jefferson Highway, Luella to Cadish; Calcasieu Parish—11 mi., Old Spanish Trail, Vinton to Sulphur; Jefferson Davis and Acadia Parishes—14 mi., Welsh to Mermen-teau; St. Mary Parish—13 mi., Jeanerette to Franklin; Acadia and Lafayette Parishes—14 mi., Crowley to Duson; Union Parish—7 mi. conc. between Bernice and Dubach; H. B. Henderlite, State Highway Engr.

La., Columbia—Caldwell Parish Police Jury, receives bids Feb. 11 for 4 roads: Dist. No. 2, 3 1/2 mi., Clarks-Bethel road; 1 1/2 mi., Grayson-Vixen road, from corporate limits of village of Grayson to Route 17; 2 mi., Copenhagen road, from Route 68 near Old Master's Chapel church site to Columbia-Summerville road, near Shiloh church; 3 mi., Columbia-Summerville road, Route 68, near Holm to Dist. 1 line; receives bids soon for 10 mi. gravel road, Dist. No. 1, near Columbia.

La., DeRidder—Charles O. Evans, Constr. Engr., Shreveport, La., reported, completed plans for proposed 22 blocks conc. paving.

La., Homer—City Council contemplates 6 blocks rein. conc. pavement; Charles D. Evans, Consit. Engr., Levy Bldg., Shreveport.

La., Jena—Town, R. W. Stephenson, Clk., receives bids Feb. 18 for 2,500 sq. yd. 6-in. rein. conc. pavement, 2,188 lin. ft. combined curb and gutter; conc. sidewalks, etc. on Oak St.; Charles D. Evans, Consit. Engr., Shreveport, La. 1-16

La., Lake Charles—City, J. Edgar Johnson, Commr. of Streets and Parks, engaged T. H. Mandell, as Civil Engr. to supervise \$50,000 paving program for 1930, including laying 20,000 sq. yd. conc.; Leon Locke, Mayor. 1-9

La., New Orleans — Louisiana Highway Comm., Baton Rouge, receives bids Feb. 25 for 2 mi. hydraulic fill on Chef Menteur Highway, Orleans Parish; Harry B. Henderlite, State Highway Engr. 12-12

La., New Orleans — City receives bids soon for 18 mi. paving and 12 mi. temporary surfacing; Bryson Vallas, City Engr.

La., Shreveport — City, Mayor Thomas plans paving Wichita St., Centenary Blvd to Coty St.

Md., Baltimore — City, Nathan L. Smith, Highways Engr., advises paving of Gwynn Oak Ave., from Gwynn Oak Junction to city line, will start about Mar. 1.

Md., Baltimore — State Roads Comm., Baltimore, plans expending \$1,300,000 in Baltimore, during 1930, to improve 10 municipal highways: Philadelphia road, Haven to Monument St.; Frederick road, Yale Ave. to western city limits; Wilkens Ave., Caton Ave. to western city limits; Caton Ave., Wilkens Ave. to western city limits; Cold Spring Lane, Falls road to Green Spring Ave.; Forty-first St., Roland to Woodberry Ave.; Northern Parkway, Sherwood Ave. to Hillen road; Arlington Ave., Hillen road to Grindon road; Loney's Lane, Monument St. to Erdman Ave.; Rogers Ave., Liberty Heights Ave. to Hayward Ave.; probably let contracts in spring; Harry D. Williar, Jr., Ch. Engr.

Md., Towson — State Roads Comm., Baltimore, received low bid from G. B. Mullin Co., Inc., 1296 Upshur St., N. W., Washington, \$27,290, for .38 mi. conc., Baltimore-Washington Blvd., as approaches to bridge over B. & O. R. R. at Vinegar Hill; G. Clinton Uhl, Chmn. 1-9

Miss., Gulfport — City, Mayor and Bd. of Commrs., plans receiving bids in about 60 days for 12,000 sq. yd. 80-ft. paving, including grading, on Twenty-fifth St.; estimated cost \$28,000; James A. Barksdale, City Engr. 1-16

Miss., Hazelhurst — City, Bd. of Aldermen, receives bids Feb. 4 for 1 1/4 mi. paving; work to start Mar. 20. 1-16

Miss., Long Beach — Harrison County Bd. of Supvrs., Gulfport, receives bids Feb. 3 for bit. surface on Jeff Davis Ave., Long Beach.

Miss., McComb — City, Mayor and Bd. of Aldermen, receives bids Feb. 18 for 15,000 sq. yd. paving, curb, gutters, storm drainage structures; plans receiving bids later on 30,000 sq. yd. paving; Henry L. Mentz & Co., Inc., City Hall Bldg.

Miss., Tunica — City, Mayor and Bd. of Aldermen, plan paving main business street; H. L. Washburn, Ch. Engr. of Southern Engineering Co., supervise work.

Miss., Yazoo City — City plans \$350,000 street paving; Franklin H. McGowan, Ocean Spring, and J. B. Williams Engineering Co., Yazoo City, Engrs., to supervise construction. 12-19

Missouri — State Highway Dept., Jefferson City, plans expending during 1930, \$30,000, 000 for road building; \$23,000,000, primary and secondary highways; \$3,000,000, widening present highways in vicinity of Kansas City and St. Louis, etc.; \$4,000,000, first farm-to-market roads; T. H. Cutler, State Highway Engr.

Missouri — State Highway Dept., Jefferson City, receives bids Jan. 31 for 46 roads and 21 bridges: Buchanan County—4,620 mi. 20-ft. conc., Saxton-St. Joseph, 13,887 cu. yd. excavation, 54,055 sq. yd. paving; Clinton County—2,976, 3,785, 4,300, 4,083, 4,214 mi., 20-ft. conc., Cameron-Excelsior Springs road, 383, 886 cu. yd. excavation, 225,959 sq. yd. paving; 6 bridges, over Deer Creek, North Fork of Crooked Creek, Barnesville and Moran Branch, double box, slab and deck girder; Adair County—1,646 mi. 18-ft. gravel, Brashear-Knox County, 39,071 cu. yd. excavation; bridge over Deer Branch; Sullivan County—2,927, 3,438, 2,788 mi. 18-ft. gravel, Milan-north and south, 157,828 cu. yd. excavation, 11,498 cu. yd. paving; bridge at Sta 844 plus 46; Knox County—150 mi. 18-ft. gravel, Adair County, east, 4,997 cu. yd. excavation; deck girder and truss bridge over A. T. & S. F. R. R.

In Lewis County—3,719, 3,688, 4,500 and 3,911 mi. 18-ft. gravel, Knox County line—Monticello, 253,721 cu. yd. excavation, 18,460 cu. yd. paving; Marion County—culvert on Route 61—West Quincy; Benton County—3,154, 2,590, 3,881, 3,887, 4,402, 4,450 mi. 20-ft. conc., Lincoln-Hickory County, 226,074 cu. yd. excavation, 275,095 sq. yd. paving; slab bridge over Branch of Turkey Creek; Clay County—3,425 and 3,805 mi. 20-ft. conc., Cameron-Excelsior Springs road, 145,341 cu.

yd. excavation, 64,827 sq. yd. excavation; Moniteau County—2,164 and 3,270 mi. 16-ft. gravel, California, North, 109,280 cu. yd. excavation, 6,164 cu. yd. paving; St. Charles County—201 mi. 18-ft. gravel, south of Old Monroe, 4,146 cu. yd. excavation, bridge over Culvre River; Barton County—284 mi. 20-ft. conc., near Lamar, 42,309 cu. yd. excavation; bridge over St. L. & S. F. R. R., deck girders.

Jasper County—2,770, 4,764 and .513 mi. 20-ft. conc., Joplin-Sarcoie road, 28,554 cu. yd. excavation, 97,991 sq. yd. paving; Lawrence County—1,181 mi. 18-ft. chas. Marionville-Stone County, 12,229 cu. yd. excavation; Dallas County—3,996, 4,890, 5,000, 4,857, 2,892, 2,869, mi. 20-ft. conc., Louisburg-Greene County, 61,288 cu. yd. excavation, 286,506 sq. yd. paving; Greene County—4,242, 3,678, 4,830 mi. 16-ft. gravel, Gainesville south, 38,487 cu. yd. excavation, 148,173 sq. yd. paving; Pulaski County—4,890 mi. 18-ft. gravel, Bloodland-south, 20,870 cu. yd. excavation; Carter County—890 mi. 18-ft. gravel, Van Buren east, 12,512 cu. yd. excavation; bridge over Jones Hollow; Ozark County—2,275 and 2,902 mi. 16-ft. gravel, Gainesville-south, 36,847 cu. yd. excavation; Texas County—3,283 and 3,473 mi. 16-ft. gravel, Pulaski County south, 74,238 cu. yd. excavation, 6,739 cu. yd. paving; T. H. Cutler, Ch. Engr.

Mo., Jefferson City — State Highway Dept., plans letting contract soon to improve 3 mi. Route 17, near Eugene, Cole County; survey being made of Boonville road northwest of Jefferson City; T. H. Cutler, State Highway Engr.

Mo., Springfield — City Commrs., J. P. Ramsey, Commr. of Streets, considering expending about \$14,754, for paving and integral curb on Turner St., National to Summit Ave.; Sam R. Fisher, City Engr.

Mo., St. Louis — City, Bd. of Public Service, receives bids Jan. 28 to improve Alexander, Magazine St., Fairfax and Sutherland Ave.; rebuild Arco, Oakland and Wichita Ave.

North Carolina — State Highway Comm., Raleigh, receives bids Feb. 18 for 12 roads and 4 bridges, underpass and approaches: Gates County—7.5 mi. gravel surface, Route 34, Sunbury to Pasquotank County line; Pasquotank County—6.5 mi. gravel surface, Route 34, from Gates County line to junction with Route 341; bridge over Roanoke River, Weldon, Route 48; Northampton County—7.2 mi., probably conc., paving, Route 481, Garysburg to Virginia State line; all First Dist.: Sampson County—1 1/2 mi. paving, probably sand asphalt, Route 23, Clinton to Bladen County line; 1.6 mi. paving, probably conc., from Goldsborough to state hospital for insane negroes; all Second Dist.: Brunswick County—J7 mi., probably sand asphalt paving, Route 30, Supply to Shallotte, Third Dist.: Chatham County—5 mi., probably conc. paving, Route 50, across county, between Raleigh and Sanford; Franklin County—4 mi. grading, structures and topsoil, Route 56, Franklinton to Granville County line; all Fourth Dist.: Moore County—1 mi. bridge and approaches, Route 902, over Deep River at High Falls; Rockingham County—2 mi. paving, bridges and approaches, Route 708, over Dan River at Madison; Fifth Dist.: Gaston County—bridge over railroad at High Shoals, Route 16; Sixth Dist.: Ashe County—16 mi. grading, structures, Route 681, Jefferson to Virginia state line, Seventh Dist.: Avery County—3 mi. grading, structures, topsoil, Route 194, Altamont to Crossnore; Eighth Dist.: Buncombe County—underpass and change in routing for 1 mi. Route 10, in West Asheville; Macon County—8 mi., probably conc. paving, Route 28, Franklin toward Highlands, Ninth Dist.: John D. Waldrop, Ch. Engr.

Oklahoma — State Highway Comm., A. R. Losh, Engr., Oklahoma City, plans about 240 mi. cement paving, during 1930: U. S. Highway No. 64, 42 mi.; U. S. Highway No. 81, 39 mi.; U. S. Highway No. 75, 34 mi.; U. S. Highway No. 77, 24 mi.; U. S. Highway No. 66, 21 mi.; O. K. Highway No. 33, 18 mi., etc.

Okla., Stilwell — City will let contract in about 30 days for 4 blocks paving.

Okla., Tulsa — City, Dan W. Patton, Mayor, plans receiving bids to widen Fifteenth St., Main St. to Boulder Ave.; K. R. Teis, City Engr.

Okla., Tulsa — City, Dan W. Patton, Mayor, plans paving Boston Place, from Reservoir Hill addition to Apache St., and from Twenty-fifth St. to Riverside View addition; Twenty-sixth St., Twenty-sixth Place and Twenty-sixth court; estimated cost \$28,041; plans receiving bids to widen Boston Ave., Fifteenth to Eighteenth St.; K. R. Teis, City Engr.

Okla., Tahlequah — Cherokee County Commrs., contemplate road from Boudinot

Springs, Highway No. 2, between Tahlequah and Westville, to Wellington; Wilson Washington, County Commr.

S. C., Columbia — City, L. B. Owens, Mayor, plans letting contracts to pave sidewalks and street, Woodrow St., Divine to Cypress; E. W. Tomlinson, City Engr.

Tenn., Chattanooga — City, E. D. Bass, Mayor, extending Market St., from Main to connect with Alton Blvd. at Thirtieth St.; estimated cost \$800,000; W. H. Wilson, City Engr.

Tenn., Columbia — Dept. of Highways and Public Works, Nashville, plans hard surface state highway between Columbia, Maury County, and Lewisburg, Marshall County, via Glendale, Culleoka and Mooresville; T. E. McEwen, State Highway Engr.

Tex., Austin — City, Adam R. Johnson, Mgr., plans receiving bids soon to pave 4 streets: 10 blocks 36 and 40-ft. wide, Nueces St., estimated cost \$28,000; 5 blocks, 36-ft. wide, San Antonio St., \$13,000; 4 blocks, 60-ft. wide, San Jacinto St., \$25,000; 6 blocks, 56-ft. wide, East Seventh St., \$40,000; H. R. F. Helland, Const. Engr.; L. H. Cholla, Paving Engr.

Tex., Austin — City, Adam R. Johnson, Mgr., plans receiving bids for additional paving: 5 blocks, 36-ft. wide, San Antonio St., cost about \$14,000; 3 blocks, 40-ft. wide, Red River St., cost \$9,000; 13 blocks, 60-ft. wide, San Jacinto St., \$75,000; 4 blocks, 60-ft. wide, Fifth St., 40-ft. wide Rio Grande St., 40-ft. wide West Ave., cost \$11,000; H. R. F. Helland, Const. Engr.; L. M. Cholla, Paving Engr.

Tex., Brownsville — City Comm., plans paving. See Financial News Columns.

Tex., Corsicana — State Highway Dept., Austin, Gibb Gilchrist, State Highway Engr., plans receiving bids Mar. 15 for grading, draining State Highway No. 31, Corsicana to Trinity River, between Navarro and Henderson Counties; plans bridge over Trinity River, north of Trinity River Bridge of St. Louis Southwestern R. R., on Highway No. 31, cost over \$250,000.

Tex., Crockett — Houston County plans expending \$1,500,000 for 4 conc. highways: No. 21, Red River to Gulf Highway, from north to south, through center of county; No. 19, King's Highway or Old San Antonio road, from Neches River to Clapps Ferry; Highway No. 13, from Centerville, Leon County, to Lufkin, via Alabama Ferry, on Trinity, via Crockett, Menard and Ratcliff; Highway No. 106, Crockett to Groveton, Livingston and on to Beaumont. See Financial News Columns. 1-16

Tex., Dallas — City, J. Waddy Tate, Mayor, considering widening North Akard and North Ervay St., to 60 ft., from Pacific to Ross Ave.; also widening North Akard St., to 80 ft., Ross to Cedar Springs; John M. Young, City Engr.

Tex., Dallas — Dallas County, Chas. E. Gross, County Auditor, receives bids Jan. 30 to pave underpass at Santa Fe R. R. on Buckner Blvd.; Rollins & Clinger, Dist. Engrs.

Tex., Fort Worth — State Highway Comm., Austin, probably let contracts in Feb. for 2 roads in Tarrant County: Draining Northwest Highway from Lake Worth to Parker County line; paving bridge approaches at Lake Worth; Gibb Gilchrist, State Highway Engr.

Tex., Goose Creek — City receives bids soon for paving 4 blocks on Pierce St., and 3 blocks on Commerce; solid conc. with monolithic curb and gutters, or 2-in. asphalt topping on 6-in. conc. base; plans paving East Texas and East James Ave. 1-9

Tex., Groesbeck — Limestone County Commrs., Court, Johnson Wakefield, County Judge, plans expending \$1,000,000 for 40 mi. conc. road from Leon County line through Farrar, Personville, LaSalle, Groesbeck and Ben Hur to McClennan County line at Mart. See Financial News Columns. 1-9

Tex., Houston — City, W. E. Monteith, Mayor, considering extending Houston Ave. south of Washington Ave. into West Capitol; H. L. Shaw, City Engr.

Tex., Marlin — Falls County plans expending \$446,000 for road building. See Financial News Columns. 12-12

Tex., Palestine — State Highway Comm., Austin, preparing plans, to be ready Apr. 1, for State Highway No. 40, between Frankston, Anderson County, and Athens, Henderson County; Gibb Gilchrist, State Highway Engr.

Tex., Port Arthur — City, J. W. O'Neal, Mayor, plans expending \$585,000 for paving and hard-surfacing various streets in 1930.

Virginia—State Highway Comn., Richmond, received low bids totaling \$473,291 for 7 roads and 4 bridges: Pittsylvania County—3.6 mi. westphalt surface, conc. base, Route 14, Spottsylvania Construction Co., Highland Springs, \$105,794, at \$123,732 for conc.; Smyth County—1 mi. bit. macad., Route 10, R. H. Bolling Co., Norton, \$43,272; at \$47,519 for rock asphalt; Nottaway County—2.4 mi. soil, Route 10, from west corporate limits of Crewe County, J. S. Kent, Richmond, \$13,945; Patrick County—9 mi. macad., Route 23, from north county line, Robert Martin Co., Salem, \$79,322; Mecklenburg County—4 mi. soil, Route 1, from Brunswick County line, W. H. Clarke Co., Charlottesville; Giles County—4 mi. grading, draining, Route 23, from West Virginia State line, R. H. Bolling, Norton, \$111,136; Fairfax and Prince William Counties—4 mi. soil, Route 28 from Centerville, R. B. Davis & Co., Charlottesville, \$22,230; Floyd County—bridge over Little River, Route 23, south of Christiansburg, Alley Construction Co., Inc., Bristol, \$19,447; Culpeper County—bridge over Rappahannock River, Route 32 near Remington, Roanoke Iron and Bridge Works, Roanoke, \$23,610; truss bridge over Rappahannock River, Route 21, near Waterloo, Roanoke Iron & Bridge Works, \$28,918; Fauquier County—bridge over Cedar Run, near Warrenton, Rhoades & Walters, Inc., Culpeper; C. S. Mullen, Ch. Engr. 1-2

Va., Clintwood—Dickenson County considering expending \$100,000 to hard surface Sandy Ridge-Nora graded road, Ervington Dist. See Financial News Columns.

Va., Clarendon—State Highway Comn., Richmond, prepared plan for 40-ft. pavement on Lee Blvd., from Memorial Bridge to Fort Myer, Arlington County.

W. Va., Welch—City, John W. Blakley, Mayor, plans widening Virginia Ave.

Contracts Awarded

Ala., Birmingham—City Comn. let contract to Christie, Hutchinson & Burton, 502 N. 21st St., \$11,181, for paving project on Second Place, South; A. J. Hawkins, City Engr.

Ala., Birmingham—City Comn. let contract to Morgan-Hill Paving Co., Woodward Bldg., \$26,944, to pave Ave. M. Enslay to western city limits; A. J. Hawkins, City Engr.

Ark., Osceola—J. Commrs. of Joiner Road Maintenance Dist. No. 1, let contract to A. C. Kennedy, Little Rock, \$130,000 for 16 mi. gravel road, southern section of Mississippi County.

Florida—State Road Dept., Tallahassee, let contracts for 3 roads; Osceola County—5.225 mi. Florida limerock base, slag surface treatment, Road 24, L. B. McLeod Construction Co., Tampa, \$112,433; Polk County—3.685 mi. Road 17, William P. McDonald Construction Co., Marble Arcade, Lakeland, \$80,257, asphalt; H. E. Wolf, St. Augustine, \$84,481, conc.; Orange County—15.308 mi. Road 2, Manly Construction Co., 216 N. Magnolia St., Ocala, \$392,729, sheet asphalt; \$400,000, for bit. conc.; R. G. Lassiter & Co., Barnett Bldg., Jacksonville, \$418,264, for cnc.; B. M. Duncan, State Highway Engr. 1-9

Fla., Fort Lauderdale—State Road Dept., Tallahassee, let contract to R. G. Lassiter & Co., Burnett Bldg., Jacksonville, \$428,128, for 13.249 mi. Road No. 4, Hillsboro Canal to Fort Lauderdale, Broward County; B. M. Duncan, State Highway Engr. 1-9

Fla., Orlando—Orange County Commrs. let contracts totaling \$194,243 to hard surface 6 roads and bridge: Langston Construction Co., 26 Wall St., Orlando, \$111,221, for Projects 23, 26 and 30, totaling 7.2 mi.; Consolidated Paving Co., \$74,985 for projects 38, 60 and 61, totaling 5.5 mi.; to H. F. Wildman, Inc., 630 E. Lexington St., \$8036, for bridge over James Creek in eastern section of county.

La., Jonesboro—Town, E. W. McDonald, Jr., Clk., let contract to Harvey & Jones, Jonesboro, \$56,923, to pave with conc. Main or Fifth St., curb, gutter, drain, culverts, grading, etc.; pave Allen Ave. with conc., lay conc. sidewalks, gutters, curbs, etc.

Md., Baltimore—City, Bd. of Awards, let contract to Baltimore Asphalt Block & Tile Co., 1320 N. Monroe St., \$50,914, to pave Broening Highway; Nathan L. Smith, Highways Engr.

Mississippi—State Highway Dept., Jackson, let contracts for 4 roads: 1.204 mi. grading, draining, U. S. Highway No. 61, between Tennessee line and Walls, De Soto County, Clarke & McKay, Jackson, \$20,212; .956 mi. grading, draining, U. S. Highway 49, Hattiesburg to Sanford, Thompson & Newman, Hattiesburg, \$9108; 3 mi. grading, draining, relocation project, U. S. Highway 51, Brook-

haven to Thayer, H. N. Donahoo, 510 N. 21st St., Birmingham, Ala., \$38,332; 3.74 mi. grading, draining, U. S. Highway No. 49, Flora to Bentonla, Clarke & McKay, \$15,352; G. A. Draper, State Highway Engr.

Miss., Columbus—City, T. W. Harris, Mayor, let contract to Fred Davis & Co., Inc., and Westerfield & Weeks, Meridian, Miss., \$9,300, for 1,360 sq. yd. conc. paving, 6,790 lin. ft. curb and gutter, 5,640 cu. yd. excavation, storm sewers, inlets, etc. in Ordinances No. 70, 71 and 72; J. P. Bicknell, City Engr. 1-2

Miss., Holly Springs—Marshall County Bd. of Supvrs. let contract to W. H. Carson, Holly Springs, \$1.35 per ft. for ½ mi. gravel road to county Agricultural high school; to Amory Sand & Gravel Co. at \$1.55 per ton, for gravel.

Miss., New Albany—City, E. Blizzard, Mayor, let contract to Sullivan, Long & Hagerty, 2014 Second Ave., Bessemer, Ala., \$11,500, for street improvements under Ordinances 105 to 120 inclusive; Robert L. Totten, Inc., Const. Engrs., Brown-Marx Bldg., Birmingham, Ala. 12-26

Miss., Newton—Town, Mayor and Bd. of Aldermen, H. H. Watts, Clk., let contracts totaling \$49,388 to Merrill Engineering Co., Lamar Bldg., Jackson, Miss., for 10,360 lin. ft. curb and gutter, 21,200 sq. yd. paving, 9200 cu. yd. grading, 3360 lin. ft. 15 to 24 in. storm sewer pipe, etc. 12-26

Tenn., Nashville—Davidson County Commrs. let contract to West Texas Construction Co., Cotton Exchange Bldg., Fort Worth, Tex., \$35,688, to pave Fred Wilson road, between municipal airport and Newman road.

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham. See Roads, Streets, Paving.

Ark., Booneville—W. F. Moody & Co., A. O. U. W. Bldg., Little Rock, reported, has contract at \$39,509 for sewers in Sewer Impr. Dist. No. 2; Dickinson & White, Engrs., Rector Bldg., Little Rock.

Ark., Pine Bluff—A. R. Barnett, 710 W. 20th St., reported, has contract for disposal system in Greenwood Park.

La., Gretna—City soon call for bids for sewerage and drainage system; Wm. H. Vincent, Engr., New Orleans.

La., New Orleans—Following contractors bidding on construction of drainage stations and drainage canals, bids opened Jan. 24; work includes Contr. 166-D, constructing drainage station, No. 9; Contr. 109-D extension to drainage station No. 2; Contr. 110-D lift screen for drainage No. 6; Contract 111-D, 3000 kw. transformer for power house No. 2; Contr. 206-D Magellan open drainage canal; Contr. 207-D Algiers outfall canal; Contr. 208-D Metairie relief outfall canal; H. Pratt Farnsworth, Canal Bank Bldg.; Chas. Gilbert Construction Co., Canal Bank Bldg.; Harry L. Villere, 1926 Poydras St.; H. N. Moody, 815 Perdido St.; A. N. Goldberg, Louisiana Bldg.; Geary Oakes Co., Queen & Crescent Bldg.; Thos. H. Brockman, Canal Bank Bldg.; Welded Products Co., of Louisiana, Inc., 410 Camp St.; John H. Murphy Iron Works, Inc., 700 S. Broad St.; Todd Engineering Dry Dock & Repair Co., Inc., 960 Fulton St.; Westinghouse Electric & Mfg. Co., Masonic Temple Bldg.; Lyman C. Reed, Hibernia Bldg.; America-Brown Boniere Co., 203 Natchez St.; Allis-Chalmers Mfg. Co., Canal Bank Bldg.; General Electric Co., Union Indemnity Bldg.; P. E. Lehde, Masonic Temple Bldg.; S. J. Stewart, 531 St. Joseph St.; O'Brien Construction Co., Queen & Crescent Bldg.; McWilliams Dredging Co., Canal Bank Bldg.; Grasser Contracting Co., American Bank Bldg.; all New Orleans; Frazier-Davis Construction Co., Arcade Bldg., St. Louis, Mo.; Ebbert F. Kirkman, Jr., Birmingham, Ala.; Scharff Co., 2161 Bailey Ave., Buffalo, N. Y.; Al Johnson Construction Co., Minneapolis, Minn. 12-5

La., New Orleans—Sewerage and Water Bd., receives bids March 20 for frequency changers, switchboards and accessories for sewerage system; plans etc., with office of board, 526 Carondelet St.

La., Shreveport—City soon call for bids for storm sewer on Looney St.; authorized acquisition of 10 acre tract on Cross Lake for additional water works plant.

Md., Baltimore—Ryan Construction Co., 1600 Walnut St., Philadelphia, Pa., has contract at \$73,446 for Gwynn Run sewer north of Edmondson Ave.

Miss., Columbus—See Roads, Streets, Paving.

Miss., Laurel—City, Paul Klyce, City Engr., making preliminary survey for sewerage extension to connect with sewer lines in Fifth Ave.

Miss., Newton—See Roads, Streets, Paving.

Mo., St. Louis—Bd. of Public Service soon receive bids for Biddle St. public relief sewer.

N. C., Greensboro—City, Ray Warren, City Engr., receives bids Feb. 11 for sewage disposal plant; heating, plumbing, electric wiring and electrical control apparatus in separate contracts on S. Buffalo Creek; cost \$300,000. 1-9-30

Okla., Enid—City Clerk advises \$100,000 storm sewer project has been cancelled. 1-9

S. C., Columbia—City plans storm drains on Divine St. and in Cedarwood.

S. C., Greenwood—Porter Construction Co., Greenwood, reported, has contract for 14,014 ft. of 24-in. sanitary sewer; Nisbet-Wingfield Co., Marion Bldg., Augusta, Ga., Const. Engrs.

Tenn., Johnson City—Southern Paving Construction Co., Volunteer Life Bldg., reported, has contract for 1 mile sanitary sewer in Pine Grove section and along East Unaka Ave. 1-16

Tenn., Sparta—City votes March 15 on bonds for sewer system.

Tex., Austin—City will probably let contract in Feb. for sanitary and storm sewers and park improvements.

Tex., Austin—City, H. R. F. Helland, Const. Engr., plans storm sewer extension and sanitary sewer improvements; cost \$135,000.

Tex., Brownsville—See Water Works.

Tex., Stephenville—City, F. J. VonZuben, Const. Engr., 611 Dan Waggoner Bldg., Fort Worth, plans sanitary sewer system, sewage disposal plant; soon call for bids.

Street Railways

Md., Baltimore—United Railways & Electric Co. plans ordering approx. 50 new cars of modern type and rebuilding 40 more cars; purchase several modern buses.

Telephone Systems

Ark., Hot Springs—Southwestern Bell Telephone Co., W. O. Pennell, Ch. Engr., Telephone Bldg., St. Louis, Mo., preparing preliminary plans for telephone building addition; probably take bids in May; 4 story, brick, conc., 30x40 ft.; I. R. Timlin, Archt., Telephone Bldg., St. Louis.

Fla., Pensacola—Southern Bell Telephone & Telegraph Co., A. T. Harford, Engr., Hurt Bldg., Atlanta, Ga., probably start erecting \$150,000 telephone building in July; brick, limestone trim, rein. conc., steel, rein. conc. slab and roof; Marye, Alger & Vinour, Archt., Walton Bldg., Atlanta, Ga.

Louisiana—Southern Bell Telephone & Telegraph Co., Atlanta, Ga., Charles A. Stair, Louisiana Mgr., reported, expend \$10,000,000 in 1930 in state.

La., Shreveport—Edson Realty Co. has low bid from K. C. Wilson, Slattery Bldg., Shreveport, at \$69,169, for building, 614 Edwards St.; Western Union Telegraph Co., Lessee, New York, Tisdale, Stone & Pinson, Archt., Goodhue Bldg., Beaumont, Tex. 12-12

Mo., Bowling Green—Southwestern Bell Telephone Co., W. O. Pennell, Ch. Engr., Telephone Bldg., St. Louis, has plans in progress for telephone building; 1 story, 28x30 ft., brick; call bids in February; I. R. Timlin, Archt., Telephone Bldg., St. Louis.

Mo., St. Louis—Southwestern Bell Telephone Co., Telephone Bldg., St. Louis, rejected bids for telephone building addition; I. R. Timlin, Archt., Telephone Bldg., St. Louis. 11-21

Mo., St. Louis—Southwestern Bell Telephone Co., E. D. Nims, Pres., announced construction program for 1930 of Missouri, Arkansas, Oklahoma, Texas and Kansas, involving approx. \$32,000,000; over \$11,000,000 for placing long distance cables underground and building long distance circuits; now placing conduits, St. Louis to Kansas City;

place cables between Kansas City and Joplin, Mo.; between Joplin and Carthage, Mo.; between Holdenville and Durant, Okla., to continue to Dallas, Tex.; place approx. 500 mi. underground cable during year; erect repeater stations required by underground cables every 50 mi., 4 between St. Louis and Kansas City, 1 at Joplin, Mo., 1 near Wapanucka, Okla., and 1 near Sherman, Tex.; erect long distance offices, St. Louis, Kansas City and Dallas; expend about \$7,000,000 for land and buildings in 1930; \$12,500,000 for new switchboards, dial telephone machinery and associated equipment; change about 115,000 telephones to dial operation, including exchange at St. Louis, Kansas City, 2 in Houston, 1 in Fort Worth; open 2 smaller unattended dial offices requiring only periodic visits for inspection including 1 in Kansas City, 2 in Dallas, 1 in St. Louis, 1 in Oklahoma City, 1 in Tulsa, 1 in Little Rock, Ark., 1 in Houston, Tex.; over \$11,000,000 for extending telephone lines in exchanges; \$9,000,000 for new telephone instruments, private switchboards, known as P. B. X's. 12-19-29

Okla., Elk City—Southwestern Bell Telephone Co., C. W. Mier, Engr., Oklahoma City, let contract to Neece & Joseph, Elk City, for \$20,000 telephone building; 1 story, brick, conc. 12-19-29

Okla., Red Fork—Southwestern Bell Telephone Co., C. W. Mier, Engr., Oklahoma City, let contract to Matterson Construction Co., Commercial Bldg., Tulsa, for \$10,000 telephone building; 1 story, brick.

Tenn., Paris—Southern Bell Telephone & Telegraph Co., Atlanta, Ga., F. C. Farris, Commercial Survey Engr., Nashville, making survey for flash light system; A. W. Jackson, Local Mgr.

Tex., San Diego — Laredo Southeastern Telephone Co. secured option on site for exchange building; 65x70 ft., brick, tile, modern design; system to be of automatic light type; plans under way, begin construction soon; Emma Garcia, Local Chief Operator and Mgr.

Okla., Stillwater—Southwestern Bell Telephone Co., A. G. Mills, Telephone Bldg., Oklahoma City, completing plans, ready for bids about Feb. 1 for telephone building; 1 story, brick, rein. conc., fireproof, 50 x 35 ft.; I. R. Timlin, Archt., Telephone Bldg., St. Louis. 11-7.

Textile Mills

Ala., Selma—Ames Bag Factory, J. F. Ames, Range and Selma Sts., reported, plans addition and improvements to plant; install bleachery in building recently acquired.

Md., Baltimore—Wm. E. Hooper & Sons Co., Parkdale Ave., construct building, S. W. cor. Woodberry Ave. and Parkdale Ave., for storage; brick, 101x181 ft.; Carl W. Schmidt, Contr., Hearst Tower Bldg.

Mo., Jefferson City—D. M. Oberman Mfg. Co., Springfield, reported, plans establishing woolen mill and finishing plant in old Hays plant; citizens to subscribe \$50,000.

N. C., Hickory—Shuford Mill Co., reported, install 100 knitting machines in plant at Highland.

N. C., Swannanoa—Knight C. Richmond, Engr. and Archt., 526 Grosvenor Bldg., Providence, R. I., advises that warehouse for Beacon Mfg. Co., New Bedford, Mass., is being constructed by company construction forces; work well under way and greater part of sub-contract have been let. 1-9-30

S. C., Greenville—Alester G. Furman, Woodside Bldg., reported, acquired Camperdown Mill.

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ala., Greenville—Layne Central Co., 106 Cromwell St., Montgomery, low bidder on deep well for water works; Hodson & Jones, Montgomery, and J. P. Carter, Greenville, low bidder for extension water mains and reservoir; cost \$35,000. 12-19

Ark., Clarksville—Waterworks & Power Improvement Dist., W. L. Winters, Engr., 311 Merchants National Bank Bldg., Ft. Smith, has final plans in progress for filtration plant on Piney Creek; install pumping

station, intake tower, sedimentation basin and filter, etc. 12-5

Ark., Waldron — Water Works Commrs. plan water works improvements; drill test well.

Ga., Savannah—City, Lewis A. East, Water Works Supt., soon receive bids for rehabilitation of Gwinnett St. pumping station, including work, furnishing conduits, set of air lines, boilers, condensers, etc. 11-28

La., Oberlin — Village, reported, receives bids Feb. 25 for water works; \$25,000 available. 1-2-30

Miss., Blue Mountain — City, George T. Callicutt, Mayor, plans installing \$15,000 water works.

Miss., Purvis — Mississippi Utility Co., Jackson, reported, extend water mains.

Mo., Ava—City, C. E. Yeoman, Mayor, reported, plans water system extension.

Mo., Bismarck—City, P. C. Friend, Clk., reported, let contract to Joseph O'Neil, Leavenworth, Kansas, at \$39,111 for water works. 12-12

Okla., Henryetta — City plans laying 2 water lines to site of Pittsburgh Plate Glass Co.'s plant.

Okla., Oklahoma City—Sherman Machine & Iron Works, 18 E. Main St., reported, low bidder on electric equipment for water works pumping plant. 10-24

S. C., Springfield—City receiving bids for furnishing and erecting station, drilling well; furnishing c. l. pipe, valves, boxes, etc.; Ryan Engineering Co., Engrs., 41 Arcade Bldg., Columbia.

Tex., Brady—City plans additional water supply; soon let contract.

Tenn., Bruceton—City voted \$45,000 water works bonds. A. G. Lowe, Mayor.

Tex., Brownsville—City plans voting on bonds for water and sewers. See Financial News Columns.

Tex., Childress — City, reported, expend \$100,000 for pumping plant and pipe line to Lake Childress pumps; distance of 5 miles.

Tex., Liberty—City acquired water works system from Charles W. Fisher; Kilne Bros., 422 N. Walton St., Dallas, completing installation work on new system. 10-17

Tex., Troup — Layne-Texas Co., Second Natl. Bank Bldg., Houston, reported, has contract for drilling well; install pump, etc.

Va., Roanoke—Roanoke Water Works Co., 20 Salem Ave., E., revising plans for supplying city with water from Carvin's Cove water supply.

W. Va., Morgantown—Monongahela West Penn Public Service Co., Fairmont, plans improvements to water works system. 1-16

Woodworking Plants

Ala., Salem—Moundville Lumber Co., J. E. Howell, Moundville, acquired Kahn Brick Co. property for establishing lumber yard and veneer mill; erecting mill building, 40x100 ft., and new dry kiln; H. C. Howell, Moundville, to be plant manager.

Ark., Mountain View—H. S. Marby Co., H. S. Mabry, Mountain View, acquired 6600 acres white oak timber to be worked into staves; will erect mill at once.

Ky., Hodgenville—Lincoln Mfg. Co., capital \$100,000, incorporated; J. F. Kasper, Charles J. Hubbard; furniture.

Md., Cockeysville—Pickrel Walnut Co. acquired Williamson Bros. Veneer Co.

Miss., Monticello—Monticello Plywood Box Co., capital \$30,000, being formed by J. C. Gignac, Bay City, Mich., Esther Rauch, Monticello, and associates.

Miss., West—Allen Cooperage Co. erecting cooperage plant.

Mo., Poplar Bluff—Caruthersville Stave & Heading Co., H. B. Moore, Caruthersville, plans establishing plant to replace plant recently burned at Caruthersville.

N. C., Tabor—Columbus Chair Co., capital \$50,000, incorporated; T. G. Wiles, L. T. Cox.

Tenn., Knoxville—H. E. Hund Briggs Mfg. Co., 11631 Mack St., Detroit, Mich., advises regarding reports acquired plant of Sterling Wood Products Co., 730 Dale Ave., and plans expansion, and would erect plants at Chattanooga, Nashville and probably at Memphis: "Have no immediate plans for expansion at Knoxville nor have we plans for erecting plants at other points."

Tex., Eagle Pass—Winter Garden Chamber of Commerce interested in establishing crate and basket plant for district.

FIRE DAMAGE

Ala., Weaver—Residence and store owned by Ralph Rutledge.

Ark., Cabot—Store buildings of Mrs. M. K. Moran and J. D. Oliver; loss \$10,000.

Ark., Paragould — Warehouse of Beard's Temple of Music, E. Main St.

D. C., Washington—Senator Key Pittman's residence, Ridge Rd. near Wesley Heights.

Ga., Byron—C. C. Richardson's residence; loss \$15,000.

Ga., Macon—Residence of Chas. D. Peavy, Jr., 107 Osborn Place, Ingleside; loss \$12,000.

Ga., Washington—Sam Hinton's residence, Metasville and Lincolnton Rds.

Ky., Maysville—Opera House Building on W. Section St.; loss \$50,000.

La., Clayton—Methodist Church and M. H. Bone's store.

La., St. Joseph—Mrs. W. J. Steen's building, occupied by Oscar Levy as dry goods store; loss \$10,000.

La., West Monroe, Monroe—W. C. Fenzell's residence, River Front St.; loss \$50,000.

Md., Baltimore—Jas. W. Rayner's residence, Manchester Rd. near German Hill Rd.

Miss., Swifton—Gin and seed house of Barron & Holland; loss \$25,000.

Mo., Hannibal—Settles Bldg., occupied in part by The Famous, woman's ready to wear store; loss \$100,000.

Mo., St. Louis—Rice-Stix Dry Goods Co.'s trunk plant, Eighth and Howard St.; loss \$90,000.

N. C., Charlotte—Adams-Fowler Co.'s grain and provision store, 300 E. Trade St., H. B. Fowler, Pres.

N. C., Concord — Storerooms in Brown-Norcott Mill Village occupied by O. K. Shoe Shop, Sanitary Barber Shop, Gray's Cash Cafe, Bob's Grocery Store, T. C. Swank's cafe; loss \$15,000.

N. C., Kinston — Farmers Tobacco Warehouse; loss \$90,000.

Okla., Lawton — First Christian Church; loss \$90,000.

S. C., Aiken—Winter residence nearing completion of Seymour H. Knox, Buffalo, N. Y.; loss \$65,000 to \$75,000.

Tex., Brenham—Alamo School; loss \$10,000.

Tex., Coleman—B. A. Pessles' building, occupied by Coleman Poultry & Egg Co.; loss \$10,000.

Tex., Dallas—Southwest Tablet Mfg. Supply Co.'s warehouse and manufacturing equipment; loss \$100,000; E. H. Perry, Jr., Pres., 304 5th St., Austin.

Tex., Grapeland — Shaver filling station; loss \$12,000; Dutich grocery and feed store; loss \$4,000.

Tex., Killeen—Shifner-Stirling Dry Goods and Grocery Store; loss 20,000.

Tex., Munday—E. E. Akers' department store and Guinn Hardware Co.'s store buildings, owned by Fred Broach; loss \$20,000.

Tex., Paris — Building occupied by Duncan-Terrell Motor Co.; loss \$75,000.

Tex., Teague—Ed Roy Simmons' residence; loss \$25,000.

Tex., Temple—D. C. Herndon & Co.'s poultry dressing plant, S. Second St.; loss \$15,000.

Va., Portsmouth—E. D. Wilkins' lumber yard and woodworking plant, County St.; loss \$50,000.

Va., Standardsville—Blakey Mercantile Co.'s building; postoffice; Spottswood Hotel; loss \$40,000.

Va., Suffolk—Suffolk Peanut Co.'s plant; loss \$50,000.

Va., Winchester—Lee Baking Co.'s plant; John Whetzel, local Mgr.; loss \$300,000.

W. Va., Huntington—Edmond V. Johnston's building, 917 Fourth Ave., occupied by M. D. Angel Clothing Co.; loss \$50,000.

W. Va., Nitro—Siedell Chemical Co.'s plant; loss \$10,000; C. L. Siedell, Plant Supt.

W. Va., Orlando—Odd Fellows Bldg., owned by Washington Lodge No. 194, I. O. O. F.; loss \$8000.

W. Va., Salem — A. D. Traugh's garage and apartment building, Mill St.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Fla., Ybor City, Tampa—Castillo Cristobal Colon No. 7, Knights of the Golden Eagle, Segundo Gouraler, Pres., Bldg. Comm., start work in few days on \$50,000 clubhouse; 2 stories, tower; auditorium seat about 500; designed by I. A. DeMinicis, 1425½ E. Broadway. 9-12

La., Ferriday—Gray-McCearley Post No. 4, American Legion, plans bldg.; glass-enclosed.

La., Vinton — Knights of Pythias, S. R. Holder, member, having plans drawn by I. C. Carter, Archt., Kaufman Bldg., Lake Charles, for rein. conc. and brick lodge and post office bldg.; 2 stories, 31x90 ft. 12-19

Tex., Fort Worth—Masonic Temple Builders' Assn. Bd. of Trustees will consider plans for \$1,000,000 temple at meeting Feb. 19; W. G. Clarkson & Co., Archts., First Natl. Bk. Bldg. 3-7

Bank and Office

D. C., Washington—National Education Assn., 1201 Sixteenth St. H. A. Allen Business Mgr., has lowest accepted bid from Geo. E. Wyne, 2525 Pennsylvania Ave., N. W., for \$400,000 office bldg., M and 16th Sts.; Frank Irving Cooper Corp., Archts., 172 Tremont St., Boston, Mass. 1-9

Ga., Atlanta—Citizens & Southern National Bank, W. B. Spann, Vice-Pres., advises has Hentz, Adler & Shutz, Candler Bldg., preparing tentative sketches for improvement to property but selection of architects not definitely decided. 12-12

Miss., Clarksdale—Bank of Clarksdale, E. P. Peacock, Pres., have plans by Harker & Cairns, Archts., Court Square Bldg., Memphis, Tenn., ready for bids about Feb. 10; rein. conc. foundation, steel columns and roof constr., 1 story and mezzanine, about 60 x 100 ft., marble, wood and tile floors, built-up roof; Gardner & Howe, Engrs., Porter Bldg., Memphis.

Okla., Pauls Valley—First National Bank will rebuild burned structure.

Tenn., Chattanooga — Hamilton National Associates, Inc., will incorporate, A. A. Cook, president, First National Bank, South Pittsburgh, Tenn., member; to occupy second floor of Hamilton National Bank Bldg. upon completion of remodeling work.

Churches

Ala., Gadsden—First Presbyterian Church erect \$25,000 Sunday school annex; brick, 2 stories, 40x100 ft.

Ark., Fort Smith — Dodson Ave. M. E. Church, South, 1922 Dodson Ave., erect \$50,000 auditorium; furnishings, equipment, etc., \$10,000. Address D. L. Ford, First Natl. Bk. Bldg. 1-16

Ark., Lake Village—Baptist Church erect \$25,000 to \$40,000 bldg.; work start about March 1.

Ga., Cairo—Presbyterian Church, Rev. S. Wilkes Dendy, Pastor, receives bids about Jan. 22 for brick bldg.; \$12,000, conc. footings, hardwood floors, comp. roof, auditorium seat 200, 8 classrooms; T. Firth Lockwood, Archt., Murrah Bldg., Columbus. 1-9

Ga., Macon—Vineville Presbyterian Church has preliminary plans for remodeling church and erecting 2-story Sunday school annex; limestone, reface church with limestone; \$30,000, 2 stories and basement, hardwood floors, comp. roof, steam heat, Dennis & Dennis, Archts., 556 Mulberry St.

La., Oakdale—First Baptist Church has low bid at \$17,973 from John W. Hudson, Oakdale, for bldg.; Daniel & Smith, Archts., Beaumont, Tex. 12-26

La., Vinton — Methodist Church, Rev. S. Walton, Pastor, erect \$50,000 church and Sunday school; brick, stone trim, 2 stories, 52x65 ft.; T. C. Carter, Archt., Kaufman Bldg., Lake Charles; plans probably ready in 60 days.

Md., Baltimore—Salem Evangelical Methodist Church, Hebbville, Rev. G. L. Reeser, Chmn., Bldg. Comm., plans \$50,000 bldg., Windsor Mill Rd.; stone, 1 story.

Miss., Natchez—St. Marys Cathedral, Rt. Rev. R. O. Gerow, Bishop of Natchez, improving cathedral.

Mo., Kansas City—Church of Christ, Scientist, A. Espey, member, 1206 Waldheim Bldg., erect \$150,000 bldg.; brick, 2 stories; Keene & Simpson, Archts., Land Bk. Bldg.; E. Pfuhl, Engr., Finance Bldg.

Mo., St. Louis—Bethlehem Evangelical Lutheran Church, Rev. J. Frenz, Pastor, 2144 Salisbury St., soon break ground for \$150,000 Sunday school and recreation bldg.; A. Meyer, Archt., Central Natl. Bk. Bldg. 8-29

Okla., Guthrie—First Baptist Church, Rev. Chas. T. Alexander, Pastor, having plans drawn for \$50,000 auditorium; Sunday school later.

Okla., Hooker — Baptist Church, W. E. Burge, Chmn., Bldg. Comm., completed plans for \$23,000 bldg.; date of bids not determined; brick and stone, 1 story; Smith & English, Archts., Hutchinson, Kan. 11-28

Okla., Oklahoma City—Centenary Baptist Church erect \$25,000 bldg. by day labor; brick veneer, 1 story, 70x40 ft.

Tenn., Dickson—First Baptist Church, Dr. Livingston T. Mays, Pastor, plans bldg., Church and College Sts.

Tenn., Morristown—First Presbyterian Church, S. M. Holsinger, Chmn., Bd. of Deacons, erect \$20,000 Sunday school addition; 3 stories.

Tex., Dallas—Central Lutheran Church, Rev. V. T. Jordahl, Pastor, plans building, Victor and Carroll Sts.

Tex., Fort Worth—San Jose R. C. Church, Rev. Eugene Herran, Pastor, having plans drawn by Wyatt C. Hedrick, Inc., First Natl. Bk. Bldg., for \$20,000 bldg.; brick, 1 story and basement. (Archt. lately incorporated.) 1-16

Tex., Navasota—Baptist Church, H. L. Lewis, Chmn., Bldg. Comm., remodel bldg.; new front, interior decorations; Will N. Noonan Co., Archt., Builders Exch. Bldg., San Antonio.

City and County

Ala., Entaw—Greene County Bd. of Revenue erect \$10,000 library.

Ark., Pine Bluff—Jefferson County Bd. of Commrs., R. H. Williams, County Judge, may remodel present courthouse or erect new structure.

Fla., Jacksonville—City Comm., F. M. Valz, Chmn., receives bids until Jan. 20 for fire alarm headquarters, 1 story and basement, at Laura and First Sts., and for Fire Station No. 4, Jefferson and Duval Sts.; plumbing, heating and elect. work in gen. contract; plans from Jefferson D. Powell, Archt., Professional Bldg. 10-31

Ga., Decatur—DeKalb County Bd. of Commrs., L. T. Y. Nash, member, enlarge jail; brick, conc. foundation, cement floors, comp. roof; Edwards & Sayward, Archts.; Robt. B. Logan, Asso. Archt., both 101 Marietta Bldg., Atlanta; jail work in separate contract.

La., New Orleans—City, A. S. Montz, City Archt., drawing plans for \$25,000 fire station, Alvar St. near Rampart St.; face brick and steel, 2 stories, steam heat, showers; also plans 3 fire stations in Gentilly, Lakeview, and section bet. Broadmoor and Carrollton.

La., New Orleans—Following contractors estimating on engine house for Jefferson Volunteer Fire Department No. 1, bids Feb. 6 by L. A. Sanders, Chmn., Bldg. Comm., 3800 Tulane Ave.; Phillip Schneller, 4141 Orleans St.; Geo. J. Lupo, 4925 S. Tonti St.; A. Garrett, Maritime Bldg.; O. F. Harang, 5663 Milne St.; Peter Bordages, 2719 Lavender St.; J. J. Lagarde, Maritime Bldg.; John J. Julian, 2412 Wistaria St.; Wm. H. Guy, 2324 Jena St.; T. L. Powell, 162 Hesper Ave., Metairie; A. Pumilla, Balter Bldg.; J. E. Cockerham, 941 St. Maurice Ave.; Wm. P. Bond; Herbert Bros.; T. J. Paddock, 4521 Laurel St. 1-16

La., New Orleans—City Dept. of Public Finances, Pur. Div., Room 24, City Hall, receives bids until Feb. 11 for lighting fixtures in New Criminal Court and Jail Bldg.; plans from Diboll & Owen, Ltd., Archts., Room 1501, Canal Bk. Bldg.

La., New Orleans—City, A. S. Montz, City Archt., City Hall Bldg., have plans ready about 10 days for bids on stable, Deers and Agriculture Sts.; 1 story, 80x84 ft., steel frame, conc. floors and foundation, conc. chain wall.

Md., Chestertown—Chestertown Volunteer Fire Co., Arlington L. Sparks, Pres., may erect \$40,000 fire engine and community house building.

Miss., Greenwood—City votes Feb. 3 on \$85,000 city hall bonds. 11-28

Miss., Laurel — Jones County Bd. of Supvrs. plan annex to courthouse to include jail; also plan repairs and alterations to courthouse at Ellisville; issue \$70,000 in bonds.

Miss., Mendenhall—Simpson County Bd. of Supvrs. receives bids until Feb. 5 for new roof and other repairs to courthouse; \$10,000; plans from Hull & Malvaney, Archts., Mercantile Bank Bldg., Jackson. 12-19

Miss., Vaiden—Carroll County Bd. of Supvrs. receive bids until Feb. 3 for courthouse repairs; plans from H. A. Lott, Clk.

Okla., Enid — City Council, E. M. Fry, City Mgr., and Garfield County Bd. of Commrs., are considering erection of joint city-county building.

Okla., Oklahoma City—Oklahoma County Bd. of Commrs. and City Council will appoint joint advisory committee to consider city-county building proposition.

S. C., Anderson—Anderson County Bd. of Supvrs. repair jail; Saml. Cathcart, Archt.

S. C., Rock Hill—Library Comm., J. W. O'Neal, Chmn., plans library.

Tex., Clear Lake—Harris County Bd. of Commrs., R. H. Spencer, 3703 Travis Bldg., Houston, member, plans \$12,000 rest room, County Park; also plans to lease land at La Porte for public bathing and entertainment resort.

Tex., Dallas—Dallas Public Library, W. T. Henry, Chmn., Bd. of Trustees, erect \$100,000 East Dallas branch at Tremont St. and Glasgow Drive.

Tex., Liberty—Liberty County Commrs.' Court C. R. Wilson, County Judge, plans courthouse.

Tex., Pampa—City have plans ready about March 10 for \$100,000 Georgian type city hall and \$33,000 fire station; brick, conc. and steel, 2 stories; W. R. Kaufman & Son, Archts. 9-5

Tex., Pasadena — City, G. W. Conrad, Mayor, receives bids until Jan. 21 for city hall and fire station; plans from office City Engr., 510 Second Natl. Bk. Bldg., Houston.

Tex., San Antonio—City, Jacob Rubiola, Park Commr., rejected bids for open air theatre, Star Garden, Brackenridge Park; probably revise plans. 1-16

Dwellings

Ala., Bessemer—Chas. Schillel, 609 N. 17th St., has low bid at \$114,000 from Dillard & Reeves for 4 dwellings; T. J. Skinner, Archt., 2208 Dartmouth Ave.

Ala., Selma—J. F. Ames, care Ames Bag Factory, Range and Selma Sts., erect dwelling, Fifth St., for his son.

D. C., Washington—Robt. E. Kline, Jr., Union Trust Bldg., erect 9 brick dwellings, 1701-17 C St., N. E.; 2 stories; \$40,000.

D. C., Washington—Everett S. Beall, Jr., 1261 New Hampshire Ave., N. W., erect 2 brick dwellings, 3639-37 Beazey St., N. W.; 2 stories; \$20,000.

D. C., Washington—F. A. Murgia, 822 W St., N. W., erect \$15,000 residence, Utah Ave., N. W.; brick, 2 stories.

D. C., Washington—T. F. Jones, 511 E St., N. W., erect \$15,000 residence, 3511 Patterson St., N. W.; brick, 2 stories.

Fla., Leesburg—Clark Kauffman erect \$25,000 residence, Silver Lake; brick, 2 stories and basement, 50x33 ft., hardwood, pine and tile floors, asbestos and built-up roof, hot air heat, incinerator, elect. refrigerator, septic tanks; Maurice E. Kressly, Archt., Smith Bldg., Orlando.

Fla., Miami Beach—Russell Pancoast, Archt., Lincoln Rd., drawing plans for \$25,000 dwelling and garage, Meridian Ave.; 2 stories, rein. conc., conc. block and stucco, tile and wood floors, tile roof, tile baths, steel sash, cast stone, orna. iron.

Fla., Mount Dora—Harry V. Fish, Ninth and Donnelly Sts., erect \$11,000 residence; brick veneer, 2 stories and basement, 40x36 ft., tile and oak floors, asbestos roof; L. J. Pierce, Contr., 948 Gorham St.

Fla., St. Petersburg—Booth Realty Co., Rochester, Mass., erect dwelling, Euclid Blvd., to be used by officials during vacations.

Ga., Atlanta—L. E. Rogers, Candler Bldg., has low bid at \$25,800 from C. R. Justi for residence; Burge & Stevens, Archts., both 101 Marietta Bldg. 1-9

Md., Baltimore—Jos. S. Small, 6004 Falls Rd., erect 13 brick dwellings, 3100 block Crittenden Place; 2 stories; \$32,000.

Md., Baltimore—Arrow Real Estate Co., 5445 Jonquil St., erect 10 brick dwellings, 5000 block Jonquil and Narcissus Aves.; brick, 2 stories; \$25,000.

Md., Baltimore—Wm. T. Quill, 511 N. Lakewood Ave., erect 10 semi-detached dwellings, 4400-18 Woodlea Ave.

Miss., Okolona—Kincannon & Lawson, Archts.-Engrs., Woolworth Bldg., Tupelo, drawing plans for 2 Colonial dwellings; brick veneer, cast stone trim, comp. roofs, 45x60 ft., wood floors, \$10,000 each; also for \$6500 dwelling at Tupelo; conc. block and stucco, comp. roof, plans out Feb. 1.

Mo., Humansville—C. E. Dimmitt, New York and Humansville, plans \$35,000 residence; brick, 2 stories.

Mo., St. Louis—F. J. Miller, care Mercantile Commerce Trust Co., 5529 Southwest Ave., considers erecting 1½-story brick residence.

Mo., St. Louis—Herman Dohrmann, 2964 Natural Bridge Rd., erect brick residence, Bristol Drive, Pasadena Hills; 1½ stories and basement, 43x34 ft., tile bath, hardwood and terrazzo floors, slate roof, hot water heat; L. J. Graham, Archt., 4885 Natural Bridge; bids in.

Mo., St. Louis—A. H. Koppen, 4922A Tholozan Ave., erect residence, Bowen St., Holly Hills; W. P. Manske & Associates, Archts., 4526 Olive St.

Okla., Tulsa—Blair Bros., 208 S. Main St., started work on fireproof dwelling, Forest Blvd., Forest Hills; brick veneer, 2 stories, attic and basement, 30x72 ft., metal French casement windows, Eternit asbestos slate roof, steam heat.

S. C., Rock Hill—P. B. Sellers erect \$10,000 residence; frame, 10 rooms, comp. or tile roof; A. D. Gilchrist, Archt., Citizens Bk. Bldg.

Tenn., Chattanooga—D. S. Latimore erect \$10,000 residence, Brainerd Crest; 6 rooms.

Tenn., Nashville—Overton Thompson, Elliston Apts., erect brick, stone and conc. residence, Glen Tevin Rd.; 2 stories and basement, 33x48 ft. with 18x19-ft. wing; Geo. D. Nevins, Archt., Ind. Life Bldg.

Tex., Houston—A. H. Boehm, care River Oaks Corp., River Oaks Bldg., purchased site, Pine Valley and Shepherd Drives, River Oaks, for residence.

Tex., Houston—Minor Stewart, Pres., Houston Abstract Co., Post Dispatch Bldg., purchased site, Troon Rd., River Oaks, for residence.

Tex., Houston—Leo Gaber, 2501 Isabella St., erect 18 five-room frame dwellings, 3712-14 Ennis, 2811-35 and 2909-27 E. Alabama Sts.; \$16,200.

Tex., Houston—S. W. Harregang, Westheimer Bldg., erect \$13,000 residence, 3354 Chevy Chase St.; brick veneer, 9 rooms.

Tex., San Antonio—L. A. Jackson, 429 N. St. Marys St., probably erect 200 to 300 small frame dwellings in Mayfield Park Addition; M. A. Ryan, Archt., 421 N. St. Marys St. See Want Section—Building Material and Equipment.

Va., Alexandria—F. W. King, Executive Vice-Pres., Virginia Public Service Co., advises only slight repairs necessary on residence. 1-16

Government and State

Ala., Camp McClellan, Anniston—Constructing Quartermaster, O. E. Davis, First Lieut., has low bid at \$213,500 from A. C. Samford, 301 Washington Ave., Montgomery, for 18 officers' quarters, Fort McClellan. 1-9

D. C., Washington—District Commissioners, Dist. Bldg., have low bid at \$243,470 from Geo. E. Wyne, 2525 Pennsylvania Ave., N. W., for exhibition bldg. for reptile, amphibians, insects and misc. invertebrates, National Zoological Park; plans by A. L. Harris, Municipal Archt., Dist. Bldg. 1-9

D. C., Washington—U. S. Custom House Custodian receives bids until Feb. 5 for changes in post office screen and first story at custom house; plans from C. R. Lewis, Custodian.

La., Baton Rouge—State, Huey P. Long, Gov., selected Weiss, Dreyfous & Seifert, Maison Blanche Bldg., New Orleans, as architects for new State Capitol probably white limestone, 16 to 18 stories; appropriation approved by State Bd. of Liquidation; structure to cost \$1,250,000.

Mo., Jefferson City—State, Henry C. Caulfield, Gov., hopes to release funds in short time to start work on proposed \$750,000 intermediate reformatory, location not determined. 4-14-27

N. C., Fort Bragg—War Dept., Office Constructing Quartermaster, Fort Bragg, receives bids in triplicate until Feb. 14 for 16 non-commissioned officers' quarters; \$105,000; information on request.

N. C., Greensboro—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., drawing sketches for \$750,000 post office; advises work will proceed in regular order. 8-8

N. C., Glenrock, Asheville—J. H. Rea, Hendersonville Road, erect 1- or 3-story bldg., Depot St.; section to be leased to Government for post office; 300 lock boxes; work start in 2 weeks.

Va., Buena Vista—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., plans to call for bids for \$75,000 post office in March.

Va., Richmond—Following contractors estimating on \$1,500,000 extension and remodeling (except elevator and elevator hatchway entrances) of post office, custom house and courthouse), bids Feb. 19 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C.; DeVault & Deitrick, Inc., Massillon Rd., Canton, O.; James Baird Co., 1800 E St., N. W., Washington; John W. Cowper Co., Inc., State Planners Bk. Bldg., Richmond; J. Henry Miller, Inc., Eutaw and Franklin Sts., Baltimore, Md. 1-19

W. Va., Charleston—Capitol Building Comm., Bonner H. Hill, Sec., opens bids Mar. 5 for \$5,000,000 main unit of State Capitol; stone, 536x106 ft., 72 ft. high, dome 266 ft. high, rotunda 80 ft. in diameter, two wings 60x94 ft., 1 story, contain about 6,000,000 cu. ft.; Indiana limestone, fireproof; Cass Gilbert, Archt., 244 Madison Ave., New York. 12-12

Hospitals, Sanitariums, Etc.

Ark., Alexander—Arkansas Negro Tuberculosis Sanatorium Bd. of Trustees erect \$40,000 tuberculosis sanatorium for negroes near Alexander; brick and conc., 2 stories, conc. and wood floors, comp. built-up roof, struct. steel; Wittenberg & Delony, Archts., Home Ins. Bldg., Little Rock. (State Construction Comm., lately incorrectly reported as interested.) 1-16

Ark., Booneville—Arkansas Tuberculosis Sanatorium, Jos. M. Hill, Chmn., Bd. of Trustees, Fort Smith, has started \$250,000 constr. program; amount to be used within next 1½ years. 3-21-29

Ark., Harrison—Boone County Medical Society, Dr. W. H. Poyner, member, Hospital Comm., interested in erection of \$30,000 hospital.

Fla., Ortega—Volunteers of America, J. Herbert Berry, Regimental Commdr., 12th St., Jacksonville, plan fireproof maternity home.

Ky., Lexington—United States Veterans Bureau, L. H. Tripp, Chn., Constr. Div., Arlington Bldg., Washington, D. C., has low bid for U. S. Veterans Hospital on general construction only from W. P. Rose Co., Goldsboro, N. C., at \$865,800; low bid on general constr. plus items 1a to 1d, inclusive, comprising recreation bldg., officers' duplex quarters and M. O. C. residence, from National Construction Co., Glenn Bldg., Atlanta, Ga., at \$780,000. 1-9

Mo., Independence—Independence Sanitarium, Miss G. E. Copeland, Van Horn Rd., erect 5-story brick addition; H. C. Smith, Archt., Auditorium Bldg.

N. C., Brunswick—Breeze & Rivers, Castanea Bldg., Asheville, drawing plans for \$45,000 hospital.

S. C., Spartanburg—Spartanburg County Bd. of Commrs., received bids Jan. 24 for negro hospital, Catawba St.; \$60,000, red brick and stone, fire-resisting, 2 stories and basement, 40 beds, terrazzo and tile floors; J. Frank Collins, Archt., Andrews-Law Bldg. 8-1

Tex., San Antonio—State Bd. of Control, P. B. Walthall, Chmn., Austin; opens bids

Jan. 29 for conc. porches and runways, San Antonio State Hospital; 340x24 ft., 3 stories, monolithic floors, 20-yr. bonded roof; \$25,000; Leo. M. J. Dielmann, Archt., 306 E. Commerce St., San Antonio. 10-31

Va., Petersburg—Central State Hospital, Dr. Hugh Henry, Supt., expend during 1930 about \$23,000 to improve boiler house, \$15,000 for fire protection and \$15,000 to equip 2 new buildings.

Va., Suffolk—Tidewater Tuberculosis Hospital Assn. organized with Mrs. T. J. Wright, Marlboro Apts., Newport News, as chmn. of plans committee; plans establishment of hospital.

W. Va., Charleston—Kanawha Valley Hospital, Dr. G. C. Schofield, member, remodel bldg.; about 35 additional beds, X-ray equipment, operating room equipment; \$75,000.

Hotels and Apartments

Ala., Decatur—J. S. Arnold purchased Hilda Hotel and plans 50-room addition.

Ala., Montgomery—W. H. LeGrand, Jr., 419 Fairview Ave., erect \$10,000, 2-story brick veneer apartment.

Ky., Louisville—Eppley Hotels Co., Omaha, Neb., The Seelbach, Inc., subsidiary, Louisville, purchased Seelbach Hotel property, Fourth and Walnut Sts., and remodel.

La., Opelousas—Chamber of Commerce promoting erection of \$122,000 hotel.

Md., Annapolis—Hotel Maryland, B. J. Wiegard, reported, expend \$75,000 for interior improvements; Lawrie & Green, Archts., 821 N. Third St., Harrisburg, Pa.

Miss., Corinth—P. S. Weaver erect brick, 4-apartment, Waldren and Cass Sts.

Miss., Jackson—Management, Edwards Hotel, has low bid from Garber & Lewis, Amite St., Jackson, for improvements to hotel to include converting 3 office floors into hotel rooms, replastering, changing plumbing, redecorating and repairing hotel generally, 100 additional bathrooms with tile floors, rearranging plumbing and electric wiring, new elevators; El Dorado Plumbing & Heating Co., El Dorado, low on plumbing and heating; Koeneman Electric Co., Hamilton St., Jackson, low on electric wiring; Claude H. Lindsey, Archt., Edwards Hotel Bldg. 1-9

Miss., Okolona—Kincannon & Lawson, Archts.-Engrs., Woolworth Bldg., Tupelo, preparing plans for \$40,000, brick, 25-room hotel; contain offices of city government, offices and shops; plans expected to be completed by March 15. See Want Section—Building Material and Equipment.

Mo., Independence—Fred Wallace, Archt., Rialto Bldg., Kansas City, preparing plans for \$350,000, 6-story, 112-room hotel to be erected on Pleasant St. by group of Kansas City men; site owned by Mrs. G. A. Plank, 423 W. Maple St.; Georgian type, roof garden.

N. C., Marion—Chamber of Commerce, J. S. Goode, Sec., promoting erection of hotel.

Okla., Hobart—John J. Long ready for bids about March 1 for \$160,000, 5-story, 60x110 ft., rein. conc. hotel; conc. and tile floors, comp. roof; E. H. Eads & Co., Archts.-Engrs., Chickasha. See Want Section—Building Material and Equipment. 12-5

Okla., Tulsa—Pickwick Corp., Chas. F. Wren, Pres., 500 S. Los Angeles St., Los Angeles, Calif., closed transaction for erection \$1,000,000, 200-room Pickwick Hotel.

S. C., Columbia—Barringer Hotel Corp., W. R. Barringer, Pres., reported, erect 200-room, fireproof hotel; H. A. Underwood, Archt., Hotel Carolina Bldg., Raleigh, N. C.

Tenn., Chattanooga—G. B. Glenn, 140 N. Crest Road, having plans prepared by Cross & Hatfield for 5-story, 60-room hotel. 1-16

Tex., Brownwood—Brownwood Hotel, Inc., care J. R. Renfro, rejected bids for \$400,000, 9-story and basement, 146x100 ft., brick and stone, fireproof hotel; Wyatt C. Hedrick, Inc., Archt., First Natl. Bank Bldg., Fort Worth. 1-9

Tex., Wills Point—Southwest Hotels, Inc., Hall-Briscoe Bldg., Chickasha, Okla., has plans by E. H. Eads & Co., Chickasha, for \$25,000, 3-story, 100x140 ft., rein. conc. hotel; tile and conc. floors, comp. roof. See Want Section—Building Material and Equipment.

Va., Harrisonburg—Chas. M. Robinson, Inc., Archt., Times-Dispatch Bldg., Richmond, advises that O. M. Masters, Natl. Bk. Bldg., indefinitely postponed erection Alexander Spotswood Hotel.

Miscellaneous

La., New Orleans—Fred Bultman, 1525 Louisiana Ave., erect \$12,000, 2-story, frame mortuary parlor on City Park Ave., between

Canal and New Basin Canal; slate roof; Favrot & Livaudais, Archts., Hibernia Bldg.

La., New Orleans—St. John Berchman's Society plans \$15,000, 2-story, brick community house, St. Bernard and N. Galvez Sts.; asbestos roof; Ed. DeArmas, Archt.

Miss., Greenville—Greenville Country Club, A. L. McKee, Chmn., Bldg. Comm., soon select architect for \$13,000 clubhouse to replace recently burned structure; plans also call for 18-hole golf course. 12-5

Tenn., Memphis—J. F. Guyton, 150 W. McLeMore St., has permit for \$10,000, 30x200 ft. barn, 187 W. McLeMore St.

Tex., Houston—Owner of Levy Bldg., Main and Walker Sts., expend \$100,000 for improvements and decorations to 9th floor of building for clubrooms of Houston Club, Garner Winters, Pres., Chamber of Commerce Bldg.

Va., Virginia Beach—Clifford Hosier, member of club, Dickson Bldg., Norfolk, soon ready for bids for \$75,000, 3-story, 125x75-ft. stucco clubhouse, 112th and 113th Sts.; Philip B. Moser, Archt., Law Bldg., Norfolk. 3-29

Railway Stations, Sheds, Etc.

Mo., Boles—Missouri Pacific R. R., E. A. Hadley, Ch. Engr., St. Louis, plans 1-story, stucco passenger stations at Boles and Gray Summit; also 1-story, brick passenger station at Labadie; E. M. Tucker, Archt., Mo. Pacific Bldg., St. Louis.

Mo., Gray Summit—See Mo., Boles.

Mo., Labadie—See Mo., Boles.

N. C., Durham—Southern Railway Co., G. L. Sifton, Ch. Engr., M. W. & S., Lines East, Charlotte, soon call for bids for \$500,000, freight terminal; plans include brick, fireproof building, loading sheds and trackage. 2-28

Okla., Oklahoma City—Chicago, Rock Island & Pacific Ry. Co., C. A. Morse, Ch. Engr., Chicago, and St. Louis-San Francisco Ry. Co., F. G. Jonah, Ch. Engr., St. Louis, plan to start work in March or April on proposed \$5,000,000 passenger station north of Frisco's main line tracks between Harvey and Hudson Aves. 5-17-28

Schools

Ala., Jasper—Walker County Bd. of Education, J. Alex. Moore, Supt., advises that library building will not be erected as recently reported but new library is being established in building formerly a school building. 1-16

Ala., Mobile—Mobile County Bd. of Education, W. C. Griggs, Supt., plans improvements to schools at Citronelle and Bayou la Batre; \$50,000; also plans erecting gymnasium at Murphy High School.

Ark., Arkadelphia—Ouachita College completed plans for \$100,000 science building and \$100,000 auditorium. 10-17

Ark., Boles—Scott County, J. A. Gibbens, Supt., Waldron, erect brick veneer school; bids in.

Ark., Greenbrier—See Ark., Vilonia.

Ark., Plainview—School Bd., C. W. C. Aulsbury, Supt., erect 1-story, 58x37 ft. brick and conc. agricultural building; comp. roof, plans by State Dept. of Education, Little Rock.

Ark., Vilonia—State Bd. of Education, Little Rock, having plans drawn by State Division of Buildings for \$20,000, brick high schools at Vilonia and Greenbrier; central 10-room building, vocational home economics cottage, vocational agricultural building and principal's home.

D. C., Washington—St. Augustine College soon ready for bids for \$300,000 addition to dormitory and classroom building; P. Monaghan, Archt., 1518 Locust St., Philadelphia, Pa.

Ga., Macon—Bd. of Education, W. T. Anderson, Chmn., soon ready for bids for \$150,000, 3-story, rein. conc., brick, tile, stone trim Lanier High School for Girls, Montpelier Ave.; comp. roof, terrazzo and tile floors, steam heat; Oliphant & Shelverton, Archts., Grand Bldg.; also plans \$80,000, brick veneer 8-room Unionville School; \$80,000 4-room addition to Hudson High and Industrial School; one-room addition to White Springs School. 8-15

Ga., Doerun—Bd. of Education, R. L. Free, Chmn., receives bids Feb. 5 for auditorium-

gymnasium addition to high school; brick veneer, comp. roof, hardwood and tile floors; T. Firth Lockwood, Archt., Murrah Bldg., Columbus. 11-21

Ga., Milam—Milam Consolidated School Dist. Trustees soon call for bids for \$25,000, 11-classroom school. 10-31

Ky., Carlisle—Nicholas County Bd. of Education, Mrs. Ada S. Tylor, Supt., erect brick school for consolidated district (East Union, Wilson, Henry and Bell).

La., Baton Rouge—Zeta Zeta Chapter of Delta Kappa Epsilon Fraternity, John B. Smullin, member, Louisiana State University, ready for bids about March 1 for 3-story, 110x150 ft. fraternity house; Wogan & Bernard, Archts., Old Reymond Bldg., Baton Rouge, and New Orleans.

La., Bastrop—Morehouse Parish School Bd. having plans prepared by J. W. Smith & Associates, Ouachita Natl. Bk. Bldg., Monroe, for several schools. 6-13

La., Farmerville—Union Parish School Bd., soon ready for bids for \$40,000 1-story, rein. conc. and brick auditorium-gymnasium addition to high school; auditorium to seat 2500 people; built-up comp. roof; J. W. Smith & Associates, Archts., Ouachita Natl. Bk. Bldg., Monroe.

La., Loranger—Tangipahoa Parish School Bd., W. G. Cory, Member, Amite, called election on \$20,000 bonds for high school at Loranger.

La., New Orleans—Orleans Parish School Bd., A. J. Tete, Sec., City Hall Annex, has low bid at \$582,686 from J. V. & R. T. Burkes, Inc., American Bk. Bldg., for 4-story, 325 x 275 ft., rein. conc., steel, brick, stone trim Alcee Fortier High School; 40 classrooms, and 4 science laboratories, accommodate 1500 students; E. A. Christy, Supvg. Archt. for School Bd. 1-2

La., Plaquemine—Iberville Parish School Bd. considering making repairs to White Castle building; consolidating New Camp school with Samstown and erecting frame building for elementary pupils, repairing and adding equipment at Augusta; constructing semi-fireproof brick building for high school department at Plaquemine; constructing combination community auditorium and gymnasium and additional elementary classrooms at St. Gabriel; repairing and adding equipment to Shady Grove school; plans election in Dists. No. 1, 2, and 3 for \$40,000, \$160,000 and \$27,000, respectively, and building tax in Dist. No. 4 to raise \$10,000.

La., Ringgold—Bienville Parish School Bd., E. H. Fisher, Sec. Treas., Arcadia, receives bids March 10 for \$100,000, 2-story, rein. conc. brick, stone trim high school; built-up comp. roof; J. W. Smith & Associates, Archts., Ouachita Natl. Bk. Bldg., Monroe.

Md., Hagerstown—Washington County Bd. of Education, C. A. Weagley, Pres., having plans prepared by C. E. Kounz, Young Bldg., for 2-story, brick Jr. High School in South End; also having plans prepared by A. J. Klinkhart, Kohler Bldg., for \$150,000, 2-story, brick Jr. High School in North End. 10-10

Miss., Hattiesburg—State Teachers College, Dr. Claude Bennett, Pres., plans \$50,000 physical education building and \$75,000 library building.

Miss., Tougaloo—Bd. of Trustees, Tougaloo College, Dr. Wm. T. Holmes, Pres., having plans prepared by Hull & Malvaney, Merchants Bk. and Trust Co. Bldg., Jackson, for \$75,000, 2-story, brick, boys' dormitory.

Mo., Bismarck—School Bd., Mrs. C. L. Kistner, plans \$40,000 school.

Mo., Humansville—Bd. of Education, I. W. Woodford, Pres., erect \$80,000, 2-story, brick high school.

Mo., Kansas City—St. John's Catholic Seminary, Roman Catholic Diocese of Kansas City, Rev. T. F. Lillis, 416 W. 12th St., ready for bids about Feb. 15 for \$400,000, 3-story, brick building, Euclid Ave. and 72nd St.; M. Carroll, Archt., 711 Linwood Blvd., Kansas City; T. M. O'Meara & Hills, Asso. Archts., Arcade Bldg., St. Louis. 11-21

Mo., St. Louis—Bd. of Education, A. A. Blumeyer, Pres., receives bids Feb. 5 on \$370,000, 3-story, brick West Belle Negro Grade School on Enright Ave.; plans from G. W. Sanger, Bd. of Education Bldg. 12-5

N. C., Greensboro—North Carolina College, Dr. J. I. Foust, Pres., receives bids Feb. 5 for remodeling interior of administration building; \$70,000 appropriation; new plastering, heating, plumbing, electric wiring, in-

stallation of vaults for records; Harry Barton, College Archt. 1-9

N. C., Plymouth—Washington County Bd. of Education, James W. Norman, Supt., receives bids Jan. 28 for 1-story, brick and tile, 12-room school; separate bids for heating, plumbing and wiring.

N. C., Wake Forest—Wake Forest College erect several buildings; \$250,000; plans by H. P. S. Keller, 129 Hillcrest St., Raleigh. 11-21

N. C., Winston-Salem—Bd. of School Comms., Henry Dwire, Chmn., rejected bids, have plans revised and call for new bids for 3-story and basement, 150x300 ft., brick high school, colored, 12th St. and Cameron Ave.; Harold Macklin, Archt., Realty Bldg. 1-2

Okla., Alva—Alva School Dist. Trustees plan \$100,000 Jr. High School; 2 stories, brick and conc., fireproof; Roy W. Shaw, Archt., Enid; election on bonds soon. 11-21

Okla., Guthrie—City voted \$70,000 bonds for 2-story and basement, brick, 12-room building to replace Central Grade School; Roy W. Shaw, Archt., Enid. 1-19

Okla., Norman—School Bd., W. L. Gibbs, pres., considering calling election on bonds for ward school.

Okla., Vinita—Bd. of Education, Walter Davis, plans 1-story brick and tile gymnasium addition.

S. C., Columbia—School Bd., Frank C. Withers, Chmn., approved plans for auditorium and classroom addition to Logan School and classroom addition to Hyatt Park School; Jas. B. Urquhart, Archt., Palmetto Bldg. 6-27

S. C., Greenville—Bd. of Education, C. S. Minor, soon ready for bids for \$50,000, 2-story and basement, 110x35 ft., rein. conc. and struc. steel addition to high school on Westfield St.; comp. roof, tile and terrazzo floors, steam heat; J. E. Sirrine & Co., Engrs. 11-14

S. C., Rock Hill—Winthrop College, Dr. James P. Kinard, Pres., receives bids Feb. 5 for addition to dormitory; drawings at office of Edwards & Sayward, Archts., 101 Marietta St., Atlanta, Ga., and offices of Builders' Exchange, Atlanta, Ga., and Columbia, S. C., and at office Dr. Kinard.

S. C., Windsor—Alken County Bd. of Education, Alken, erect brick, semi-fireproof school to replace structure noted burned at loss \$40,000; J. H. Johnson, Archt.; bids in. 12-19

Tenn., Chattanooga—St. Paul's Episcopal Church, G. W. Wallace, Chmn., Bldg. Comm., erect \$15,000, 2-story, brick, fireproof school, Pine and W. 7th Sts.; J. G. Gauntt, Archt., Hamilton Natl. Bank Bldg.; bids in. 1-2

Tenn., Chattanooga—Taylor University of Biopsychology, Dr. Wm. M. Taylor, has plans by R. H. Hunt Co., James Bldg., for first unit of University to be located on 55-acre tract in Battery Heights to cost \$100,000. 8-29

Tenn., Chattanooga—School Bd. having plans prepared by Clarence T. Jones, James Bldg., for \$75,000, 2-story, brick addition to Glenwood School; comp. roof, hardwood and tile floors. 12-28

Tenn., Cookeville—Putnam County defeated \$200,000 school bonds. 1-9

Tenn., Knoxville—Bd. of Education, E. L. Adcock, Bus. Mgr., 204 E. 4th Ave., convert old gymnasium at Knoxville High School into classrooms; \$22,000, 50x70 ft., 2 stories, wood floors; purchase no equipment; Baumann & Baumann, Archts., Market St. 1-9

Tenn., Somerville—Fayette County votes May 3 on \$100,000 bonds for \$75,000 high school at Somerville and \$25,000 high school at Moscow. 1-16

Tex., Amarillo—City voted \$550,000 school bonds for expansion program as follows: \$165,000 Jr. High School, \$125,000 addition to McKinley School, Forest Hills school, \$25,000 Blvins School addition; Pleasant Valley School addition, \$40,000; equipment for new buildings, \$50,000; site in West Amarillo, \$16,000; sites for other units, \$6000; armory at Butler field or other location, \$25,000; incidentals, \$33,000; E. F. Rittenberry, Guy Carlander, both Fisk M. & P. Bldg., J. Ray Smith, Blackburn Bldg., and Kerr & Walsh, Amarillo Bldg., Archts. 1-16

Tex., Brenham—Bd. of Education rebuild Alamo School noted damaged by fire at loss \$10,000.

Tex., Dallas—Bd. of Education has low bid at \$71,313 from Crisman & Nesbit for Julian C. Frazier School for Negroes in Wahoo Dist.; H. A. Overbeck, Archt., Mercantile Bk. Bldg.

Tex., Del Rio—Del Rio Ind. School Dist., Sam H. Walk, Pres., School Bd., votes Feb. 1 on \$185,000 bonds; erect \$95,000, 2-story, brick and rein. conc. high school; expend \$10,000 for improvements present to high school for ward school and junior high; erect \$25,000, 2-classroom and auditorium, hollow tile, rein. conc. and stucco addition to North Heights School; \$22,000, 6-room and auditorium addition to Mexican School; \$3000, one-room addition to negro school; Page Bros., Archts., Littlefield Bldg., Austin. 12-12

Tex., Fort Worth—Texas Christian University Stadium Assn., Amon G. Carter, Chmn. Comm., selected Wyatt C. Hedrick, Inc., 1st Natl. Bk. Bldg., to prepare plans for \$300,000 steel and conc. stadium to seat 30,000 people. 12-19

Tex., Morse—Morse Ind. School Dist., H. W. Forester, Sec., plans vote in Feb. on \$50,000 bonds for school building. 11-28

Tex., San Antonio—Bd. of Managers, San Antonio Mission Home and Training School, F. M. Coleman, Pres., 223 S. San Saba St., erect \$100,000 building, 24th St. near W. Commerce St.; accommodate 75 girls. 12-19

Tex., San Antonio—Bd. of Education, Dr. J. A. McIntosh, Pres., receives bids Jan. 30 for 2-story, brick and rein. conc. conc., 12-room, assembly hall and cafeteria addition to Highland Park School No. 26; Morris & Neenan, Archts.-Engrs., Builders Exchange Bldg.; bids Feb. 3 for 2-story, 110x160 ft., brick and rein. conc., 11-room and assembly hall addition to Andrew Briscoe School No. 19; Richard Vander Straten, Archt., Travis Bldg.; Matthews & Kennan, Consigt. Engrs., Bedell Bldg.; bids Feb. 7 for 2-story, 45x60 ft., 4-room classroom and 1-story, 37x80 ft., brick and rein. conc. assembly hall and cafeteria addition to Beacon Hill School No. 22; Wilder & Smith, Archts., Texas Theatre Bldg.; Beretta-Stiles Co., Inc., Engrs., Natl. Bk. of Commerce Bldg.; L. D. Royer, Mech. Engr., Smith-Young Tower; Phelps & Dewees, School Archts., Gunter Bldg. 1-2

Tex., San Antonio—Bd. of Education, J. A. McIntosh, Pres., has low bid at \$77,488 from Guy C. Holder, 401 Argyle St., for 16-room, assembly hall and cafeteria, fireproof addition to Ira H. Ogden School No. 31; Emmett T. Jackson, Archt., Builders Exchange Bldg.; W. E. Simpson & Co., Engrs., Milam Bldg.; Phelps & Dewees, School Archts., Gunter Bldg. 1-2

Tex., San Antonio—Bd. of Education, J. A. McIntosh, Pres., soon ready for bids for \$46,000, 6-room and assembly hall, fireproof addition to Agnes Cotton School No. 30; Robt. Kelly, Archt.; W. E. Simpson Co., Engrs., both Milam Bldg.; Phelps & Dewees, School Archts., Gunter Bldg. 1-2

Va., Clintwood—Dickenson County votes in May on \$125,000 school building bonds.

Va., Tazewell—Tazewell County School Bd. and School Comm. of town of Tazewell soon select site for proposed \$60,000 school. 10-10

Stores

Ala., Gadsden—Woodliff Sturkee erect \$25,000, 2-story, brick store to be leased to Pizitz Smolian Co.; terra cotta trim, steam heat, built-up roof; D. O. Whildin, Archt., 517 N. 21st St., Birmingham; bids in.

Ga., Brunswick—Fleming & Parker Co. purchased Sea Island Bldg., Gloucester and Reynolds Sts., and remodel.

Ga., Butler—R. S. West plans rebuilding store recently burned, occupied by O. Dreizin's store.

Ga., Rome—Miller Cash Store, S. L. Brownlee, Mgr., remodel building; \$25,000.

Ky., Lexington—Lafe Carmine, 730 Bellaire Ave., erect business building on Bryan Station Road.

Md., Baltimore—N. Hess Sons Co., I. Hess, Pres., 8 E. Baltimore St., completing plans for alterations to 3-story store; O. E. Adams, Archt., 330 N. Charles St.

La., Monroe—Nick Demos has permit to remodel brick building, DeSiard St. between Walnut and 20th Sts., for Mrs. Masur \$12,500.

Mo., Humansville—C. E. Dimmitt erect \$35,000, 2-story brick store and office building; Heckenlively & Mark, Archts., Landers Bldg., Springfield.

Mo., Joplin—Roy E. Stephens, 711 Virginia St., erect \$40,000, 2-story, brick store, 617 Joplin St.

Mo., Kansas City—Carter-Waters Corp., 2049 Main St., soon ready for bids for \$150,000 rein. conc. building; Archer & Gloyd, Archts., Pioneer Bldg.

Mo., Kansas City—Jess Van Dyke, Mgr., A. B. C. and Economy Cleaners, erect 5 shops northeast cor. 47th St. and Forest Ave.

Mo., St. Louis—Carroll A. Berkley, 105 N. 7th St., remodel and erect addition to 2-story brick store, 3518 N. Grand Blvd.; J. E. Tarling, Archt., 2806 N. Grand Blvd.

Mo., St. Louis—Owner, care Isaac T. Cook Co., Arcade Bldg., erect store building; J. Mathews Halton, Archt., 605 Fifth Ave., New York, ready for bids.

Mo., St. Louis—Edw. S. Lyons, 3721 St. Louis Ave., soon let contract on 1-story and basement, 21x48-ft. brick store, Carter and Marcus Sts.; Ben Shapiro, Archt., Syndicate Trust Bldg.

Mo., St. Louis—P. Jackman & Sons, 618 N. Ninth St., remodel building and erect 1-story, 40x90-ft. brick addition; comp. roof; Sam B. Goldman, Archt., 4249 S. Kingsbury Blvd.

N. C., Charlotte—Roareck Jewelry Co., N. Tryon St., has plans by M. R. Marsh, Builders Bldg., for \$15,000 exterior and interior improvements. 1-16

N. C., Greensboro—Richardson Realty Co., Inc., Piedmont Bldg., rebuild 3-story building, 321-25 S. Elm St., noted damaged by fire at loss \$50,000. 1-16

N. C., Wallace—L. W. Boney erect brick building.

Okla., Oklahoma City—S. H. Kress & Co., 114 Fifth Ave., New York, plans 4 or 5-story building, 9 W. Third St.

Okla., Pauls Valley—Jim Thompson and W. A. Nicholson plan rebuilding recently burned structures.

Tenn., Knoxville—Hope Bros. (Jewelry store), J. G. Carson, Gen. Mgr., 519 S. Gay St., expend \$50,000 to remodel 3-story building, 428 S. Gay St., for store.

Tenn., Nashville—McKesson-Spurlock-Neal 214-16 Second Ave., N., has permit for \$15,000 interior improvements to store.

Tex., Beeville—E. Bond erect 1-story, brick and rein. conc. building; Malcolm G. Simons, Archt., Builders Exchange Bldg., San Antonio.

Tex., Fort Worth—Leonard Bros., Marvin Leonard, 111 N. Houston St., having plans prepared by Elmer G. Withers, Holmes Bldg., for \$250,000, 2-story and basement, L-shape, 100x200 ft. and 200x90 ft., brick and rein. conc. store, Houston and Throckmorton Sts.; comp. roof, steam heat, 30,000 sq. ft. floor space; contract for excavation to be let about Feb. 1.

Tex., Houston—A. E. Kieslin, 502½ Main St., erect 2-story, 43x86-ft. hollow tile and brick store and apartment, Fannin St. and Cleburne Ave.; 1-story wing, 41x83 ft.; A. C. Finn, Archt., Bankers Mortgage Bldg.

Tex., Lubbock—B. E. Needles has permit for \$20,000 business building.

Tex., Munday—Fred Broach erect 2 store buildings to replace structures burned at loss \$20,000.

W. Va., Huntington—W. J. Beasley, Archt., for Hart-Schaffner & Marx, 36 S. Franklin St., Chicago, preparing plans for reconstructing building, 917 Fourth Ave., noted burned at loss \$50,000; occupied by M. D. Angel Clothing Co.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Okla., Ardmore—Vernon-Williams Co., Oklahoma City, Okla., has face brick contract for \$325,000 temple for Ardmore Masonic Assn.; common brick, Ada Brick Co., Ada; Corbin trim hardware, New State Hardware Co.; J. B. White & Sons, Archts.-Engrs., W. Main St., both Ardmore; H. W. Underhill Construction Co., Contr., Braniff Bldg., Oklahoma City. 10-24

Bank and Office

Ga., Atlanta—Healey Real Estate & Improvement Co., Milton H. Liebman, Sec., Healey Bldg., let contract to Southern Ferro Concrete Co., 70 Ellis St., N. E., for \$1,000,000 office bldg., Peachtree and Marietta Sts.; 16 stories, basement and sub-basement, 100x87.9 ft., 60x40-ft. open air court in rear, rein. conc. and struct. steel frame, brick and tile, stone trim, 4 passenger elevators; Pringle & Smith, Archts., Norris Bldg.; Robt. G. Lose, Forsyth Bldg., and W. C. Spiker & Co., McGlawn-Bowen Bldg., Struct. Engrs. 1-9

Md., Baltimore—Baltimore Life Insurance Co., Arthur R. German, Vice-Pres., let contract to J. Henry Miller, Inc., Eutaw and Franklin Sts., for 12-story office bldg., Charles and Saratoga Sts.; fireproof, Indiana limestone, steel constr., 6 stories on first floor, auditorium on top floor, roof garden on setback 6th level; Mottu & White, Archts., 527 N. Charles St. 12-19

Theaters

Fla., Ybor City, Tampa—Mrs. Ignacio Haya erect \$100,000, 70x200-ft. Spanish type theater, 15th St. and Seventh Ave.; several stores, 14-ft. arcade; M. Leo Elliott, Archt., 706 Franklin St.

Ga., LaGrange—Following contractors estimating on \$50,000, 1-story, basement and balcony, 63x150 ft., stucco, brick and cinder block theatre for O. C. Lam and associates, bids about Jan. 30: Williams Construction Co.; Grahn Construction Co., both Red Rock Bldg.; Wagar & Co., Norris Bldg.; W. P. Francis, 201 Luckie St., N. W., all Atlanta; LaGrange Lumber & Supply Co.; Newnam Lumber Co.; Daniel Lumber Co., all LaGrange; cast stone trim, built-up roof; Tucker & Howell, Inc., Archts., Rhodes Haverly Bldg., Robert S. Fiske, Consltg. Engr., Healey Bldg., both Atlanta. 1-2

Ky., Maysville—Washington Opera House Directors plan rebuilding structure damaged by fire at loss \$90,000.

Okla., McAlester—R. & R. Theatre Enterprises, 2009 Jackson St., Dallas, Tex., reported, erect \$150,000, 3-story theatre on Main St.

Okla., Oklahoma City—L. S. Youngblood, Wewoka, reported, erect \$300,000, 6-story, rein. conc. theatre, 4th and Harvey Sts.

Tex., Laredo—R. & R. Theatre Enterprises, 2009 Jackson St., Dallas, ready for bids about Feb. 1 for 57x140 ft., brick, stone, steel, rein. conc. theatre; equiv. to 5 stories, seat 1700 people; W. Scott Dunne, Archt., Melba Bldg., Dallas.

Warehouses

Ga., Atlanta—Owner, care Henry H. Jordan, Archt., Glenn Bldg., receives bids Jan. 27 at 519 Forsyth Bldg., for \$80,000, 3-story, rein. conc., brick and tile warehouse and office building, Luckie, Hayden and Harris Sts., N. W.; tar and gravel roof, conc. and tile floors; following contractors estimating: The Flagler Co., Red Rock Bldg.; Harry Carr Construction Co., Candler Bldg.; Griffin Construction Co., 452 Spring St., N. W.; Southern Ferro Concrete Co., 70 Ellis St., N. E.; J. D. Butler, Glenn Bldg.; Sam N. Hodges Co., Erlanger Bldg.; Graybar Electric Co., 167 Walton St., N. W., incorrectly reported as owner.

Ga., Moultrie—T. C. Geary Tobacco Co., Lexington, Ky., erect tobacco warehouse.

Okla., Tulsa—Western States Wholesale Grocery Co., W. L. Long, Mgr., 2 North Elgin St., ready for bids about Feb. 1 for 4-story, 131x197 ft. brick and rein. conc. warehouse. 11-21

Tex., Sweetwater—International Harvester Co. of America, W. D. Price, Supt. of Construction, 606 S. Michigan Ave., Chicago, ready for bids about Feb. 1 for 100x640 ft. branch building; front part of structure, 100x177 ft., to be 2 stories, brick, steel and lumber, remaining section, 100x540 ft., 1 story, for warehouse to be used as assembling plant; 74,000 sq. ft. floor space. 11-14

Md., Rockville—Farmers Banking & Trust Co. erect \$100,000 steel, stone, marble and brick bank and office bldg.; 2 stories, 45x70 ft., marble and conc. floors, conc. foundation, gypsum roof; Tilghman-Moyer Co., Archt.-Engr.-Contr., Allentown, Pa. See Want Section—Building Material and Equipment.

Tenn., Nashville—Tennessee Products Corp. started remodeling bldg., 14 Cummins St.; new front; Jos. W. Hart, Archt., Jackson Bldg., Boone Contracting Co., Contr., Independent Bldg.

Tex., Fort Worth—Aviation Building Corp., 222 N. P. Anderson Bldg., erect 16-story struct. steel office bldg., Seventh and Main Sts., to be called Aviation Bldg.; 50x100 ft., conc. foundation, built-up roof; \$750,000; Wyatt C. Hedrick, Inc., Archt., Jas. T. Taylor, Contr., both First Natl. Bk. Bldg., Fort Worth; steel, Mosher Steel & Machinery Co., 5109 Maple St., Dallas. See Want Section—Building Material and Equipment.

Churches

Ark., Pine Bluff—West Race St. Baptist Church, Rev. W. A. Gilbert, Pastor, erect brick veneer addition; 1 story, 14x20 ft., pine floors, comp. roof; W. H. Blevins, Contr.

N. C., Charlotte—Sugaw Creek Presbyterian Church let contract to J. A. Gard.

ner, 211½ N. Tryon St., for \$10,000 Sunday school; Louis H. Asbury, Archt., 1514 E. 4th St.

City and County

Miss., Jackson—Rockwood Alabama Stone Co., Rockwood, Ala., P. O. Russellville, will furnish Rockwood Alabama stone for walls of \$850,000 Hinds County courthouse, Indiana limestone lately incorrectly reported as being used; Claude H. Lindsley, Archt., Edwards Hotel Bldg., Jackson; Gardner & Howe, Struct. Engrs., Porter Bldg., Memphis, Tenn.; C. A. Peerman, Mech. Engr., 400 S. 21st St., Birmingham, Ala.; Angle Blackford Co., Contr., American Exch. Bk. Bldg., Greensboro, N. C. 1-9

Miss., Liberty — Amite County Bd. of Supvrs. repair jail and courthouse; Rat-Arcade Bldg., Hamilton, Baltimore, for cliff Bros., Contrs.

Miss., Pascagoula — City let contract at \$15,814 to Allie Laddner & Co., Pascagoula, for pier and pavilion, with bath house and boat landing; pier 1000 ft. long, 8 ft. wide; dance hall and pavilion later. 1-16

Mo., Columbia—City Council plans election on bonds for jail and 1 or more fire stations.

Mo., Kansas City—City let contract at \$27,200 to Jas. E. Crosby, 2116 Euclid St., for fire station, Sixth and Locust Sts.

Tex., Midland—J. C. Koriolth, Sherman, has heating and plumbing contract for \$300,000 courthouse; wiring, W. M. Smith Electric Co., 1907 Bryan St., Dallas, at \$5477; jail equipment, Southern Prison Co., San Antonio, at \$20,000; elevators, Otis Elevator Co., 1820 Young St., Dallas, at \$7000; Venetian blinds, Bostwick-Geodell Co., 1613 Bryan St., Dallas, through Midland Hardware Co., Midland, at \$1964; Voelcker & Dixon, Archts., Perkins-Snyder Bldg., Wichita Falls; J. O. Everett Co., Contr., 1909 N. Harwood St., Dallas. 1-16

Tex., Waco—Following sub-contracts let on \$225,000 city hall on which masonry is up to second floor: Form work, Texas Flexible Form Co.; metal doors, elevator openings and toilet partitions, Gilbert Manufacturing Co., Marvin Bldg.; clay tile, Reliance Clay Products, Republic Bank Bldg.; terrazzo, J. Desco & Son, 1908 Canton St.; lathing, Southwest Lathing Corp.; Browne windows, Universal Building Products, Constr. Ind. Bldg.; marble, Vermont Marble Co., 1513 Wall St., all Dallas, Tex.; excavation, S. M. Neelley, 728 Franklin Ave.; struct., orna. and misc. iron, Central Texas Iron Works, 2125 Webster Ave.; millwork, E. Nelson Manufacturing Co., 700 Mary Ave.; finish hardware, Nash-Robinson & Co., 1600 Franklin Ave., all Waco; Carthage stone, Carthage Marble Corp., Carthage, Mo.; limestone, Indiana Limestone Co., Bedford, Ind.; glass, Binswanger & Co., 1007 N. Main St., Houston, Tex. 8-29

Dwellings

Ark., Monette—Dr. L. E. Tucker erecting brick veneer residence; 1 story, 5 rooms, oak floors, comp. shingle roof; owner builds.

D. C., Washington—W. A. Dunigan, Bldr., 925 Fifteenth St., N. W., erect 2 dwellings and garages, 3716 Vessey St.; brick, 2 stories; \$30,000; G. T. Santmyers, Archt., 1416 I St., N. W.

Fla., Coconut Grove, Miami — Frank D. Spencer let contract to Chas. B. Colby & Sons, Matilda St., for residence and garage, The Moorings; Walter C. DeGarmo and Thos. A. Bruno, Asso. Archts., 39 S. E. 6th St., Miami. 1-9

Fla., Miami Beach—G. O. Palmer, Palm Island, let contract to Fred Howland, 1600 N. W. 14th St., Miami, for \$20,000 residence, Flamingo Drive and 30th St.; 2 stories, 58x65 ft., conc. frame, conc. Blox curtain walls, oak and tile floors, Cuban tile roof, garage and servants' quarters; A. Fraser Rose, Archt.-Engr., 537 Collins Ave., Miami Beach. 11-28

Ga., Atlanta—Morris Brandon, Jr., Atlanta Trust Co. Bldg., let contract to T. C. Wesley & Son, Red Rock Bldg., for \$18,000 DuBrik residence, 1 story, 60x74 ft., oak floors, steel sash, slate roof, conc. foundation; Cyril B. Smith, Archt., Bona Allen Bldg. 1-16

Ga., Atlanta—C. E. Bates, 830 Marietta St., N. W., erect 2 brick veneer dwellings; 1 story and basement, hardwood floors, comp. shingle roof; \$10,000; owner builds.

Ga., Fort Gaines—L. L. Gwynn erect stucco and brick residence by day labor; 1 story, 2 baths, 65x50 ft., conc. footings, cement, tile and hardwood floors, Johns-Manville asbestos shingle roof; Lockwood & Poundstone, Archts.; Edw. F. Billie, Asso. Archt., both 101 Marietta Bldg., Atlanta.

La., New Orleans—Dr. I. Tedesco, 3207 De Soto St., erect raised single residence, De Soto and Rendon Sts.; Chas. Louviere, Contr., 510 S. Hennessy St.

La., New Orleans—John Minco, Contr., 436 Elmira Ave., erect 2 dwellings, Algiers.

Md., Baltimore — Richwood Development Co., Everton Rd., erect 4 frame dwellings and garages, 2430-36 Brambleton Rd.; 2 stories, 24.6x26.6 ft., slate roofs, hot water heat; \$20,000; W. J. Jean, Archt., 714 Highwood Drive; owner builds.

Md., Baltimore — Suburban Construction Co., York Rd., erect 13 brick dwellings, 500 block Winston Ave.; 2 stories; \$39,000; owner builds.

Md., Baltimore—Henry F. Eckels, 3509 White Ave., let contract to W. A. Alban, stucco residence, 3114 E. Gibbons Ave.

Md., Baltimore — Isaac Rosenthal, 1914 Braddish St., erect 10 brick dwellings, 2738-56 Laurens St.; 2 stories, 15x37.6 ft., hot water heat; plans and constr. by owner.

Md., Baltimore—J. A. Marriott, Rockdale, Woodlawn, has contract for \$15,000 dwelling, Pinehurst; frame, 2 stories.

Md., Baltimore—Edw. K. Gontrum, 3109 Juneau Place, erect 3 block dwellings and garages, 3714-18 Northern Parkway; 1 story, 28 x 43 ft., steam heat; \$10,000; Andrew J. Boschert, Archt.-Contr., 2523 E. Madison St.

Md., Baltimore — Walter P. Myers, 3049 Fleetwood Ave., erect 7 frame dwellings, 3201-13 Westfield Ave.; 2 stories, 24x38 ft., shingle roof; \$14,000; owner builds.

Md., Baltimore—Mrs. Irene Gardner, 530 N. Charles St., erect \$10,000 residence, 219 Tunbridge Rd., Homeland; 2½ stories; Owens & Sisco, Archts., Professional Bldg.; J. F. Hardy, Contr., 4200 Groveland Ave.

Md., Ocean City—Atlantic M. E. Church started work on parsonage; 3 stories, cement foundation, asbestos roof; Selbyville Manufacturing Co., Contr., Selbyville, Del.

Miss., Meridian—Mrs. R. M. Boudreaux, Layers Bldg., let contract to L. W. Hancock, 26th Ave., for \$12,000 brick residence; 2 stories and basement, 28x28 ft., hardwood floors, tile baths; P. J. Krouse, Archt., M. & W. Bldg. 1-2

Mo., Clayton, St. Louis—Missouri State Realty & Construction Co., 6639 Delmar Blvd., has contract for \$18,000 dwelling; brick, 2 stories; Geo. B. Wilmering, Archt., 2616 N. Kingshighway.

Mo., St. Louis — Mary Institute, Warson and Ladue Rds., let contract to Gamble Construction Co., 620 Chestnut St., for residence for Chas. H. Garrison, Pres.; Colonial design, brick, 2-car garage; Study & Farrar, Archts., Arcade Bldg.

Mo., St. Louis — G. Lawrence, Overland, Mo., erect 10 brick dwellings, 6400 block Lloyd St.; 1 story, 26x41 ft., comp. shingle roofs; \$35,000; plans and constr. by owner.

Mo., St. Louis—C. G. Emerling, Real Estate & Construction Co., Ferguson, erect 3 brick dwellings, La Palma Terrace; 24x38 ft.; \$10,500; plans and constr. by owner.

Mo., St. Louis—S. A. Ledford, 4039 Flad Ave., erect 2 brick dwellings, 5637-41 Rhodes Ave.; 1 story and basement, 27x45 ft., tile bath, hardwood floors, asphalt shingle roof, hot air heat; Adolph F. Stauder, Archt., 3608 Gravois Ave.; work by sub-contract.

Mo., St. Louis—Carl Lynd, 4505 San Francisco St., erect \$10,000 brick residence, Euclid and Anderson Sts.; 2 stories and basement, 25x49 ft., hardwood and tile floors, comp. roof, hot air heat; O. J. Popp, Archt., Arcade Bldg.; work by sub-contract.

N. C., Greensboro—A. K. Moore Realty Co., 214 W. Market St., erect \$10,000 residence, E. Greenway, Sunset Hills; brick veneer, 2 stories and basement, 38x28 ft., hardwood floors, asphalt roof; Lorenzo S. Winslow, Archt., Amer. Exch. Bk. Bldg.; day labor.

N. C., Durham—S. P. Alexander, 330 E. Main St., erect English type stone and brick residence, Oak Drive, Forest Hills; 10 rooms; Geo. Watts Carr, Archt., Forest Hill; Geo. W. Kane, Contr., First Natl. Trust Bldg.

Okla., Bartlesville—John H. Kane completed footings for rein. conc. and brick

residence; 2 stories, 45 x 113 ft. and 25 x 100 ft.; Edw. Buehler Delk, Archt., Meyer Blvd. and Ward Pkwy.; C. P. Huckle, Engr.; Joe F. Gier, Contr., 410 E. 54th St., all Kansas City, Mo. See Want Section—Building Material and Equipment. 1-9

Okla., Enid—Roy Norris, 2010 W. Maine St., completed foundation for brick veneer residence, 515 S. Garfield St.; 2 stories, 36x30 ft., oak floors, conc. foundation, tile roof; plans by owner. 1-16

Okla., Oklahoma City—Bonnenberger Bros., Inc., erect 20 bungalows; brick veneer, 5 and 6 rooms, clear red oak floors, brick foundations, \$4000 to \$8000 each; plans, engineering and constr. by owners. 1-9

Okla., Tulsa—Sunset Gardens Co., 1st Natl. Bank Bldg., started work on brick veneer dwelling; 2 stories, 30x72 ft., asbestos shingle roof, steam heat; John T. Blair, Archt., 708 S. Main St.; J. C. Wilson, Contr.

Tenn., Brainerd, Chattanooga—W. W. DuPre, Bldr., Belvoir Place, erect about 20 dwellings, Belvoir Hills Sub-division No. 2; English type, brick, shingle and weather-board, about 6 rooms; \$100,000.

Tenn., Memphis—Dr. J. O. Gordon, Medical Arts Bldg., started work on \$14,000 residence, 2437 Central Ave.; brick, 2 stories, 66x60 ft., tile roof, 2 tile baths, hardwood floors, steam heat; J. Frazer Smith, Archt., Goodwyn Inst. Bldg.; owner builds.

Tex., Houston—Roy Bettis, 508 Colquitt Co., started work on Colonial residence, 3219 Reba St., River Oaks; Chas. W. Oliver, Archt., River Oaks Bldg.; Joe H. Steele, Contr.

Tex., San Antonio—E. R. Holland, care H. B. Thomson, Archt., Alamo Bk. Bldg., let contract to Guy C. Holder, 109 Meon St., for hollow tile and conc. residence, Olmos Park; 2 stories; W. E. Simpson & Co., Engrs., Milam Bldg. 12-12

Government and State

Fla., Tampa—Additional sub-contracts let on \$500,000 extension and remodeling of post office, custom and courthouse bldg.: Glass and glazing, Pittsburgh Plate Glass Co.; 1006 Ashley St.; plumbing and heating, W. D. Chapman; grading, B. S. Todd & Co., Grace & Delaware Ave.; reinf. steel and pans, D. F. Taylor, Inc., Morgan & Bell Sts., all Tampa; painting, E. Tritton Co., Greensboro, N. C.; J. L. Crouse, Contr., P. O. Box 642, Greensboro. 1-2

S. C., Hartsville—Treasury Dept., Jas. A. Wetmore, Act. Supv., Archt., Washington, D. C., let contract to Jones Bros., 203 Planters Bank Bldg., Wilson, N. C., for post office; brick and hollow tile, conc. and wood floors, 1 story and part basement, 76x62 ft. 12-26

Va., Arlington — Navy Dept., Bureau of Yards and Docks, Washington, D. C., let contract at \$12,998 to Thos. F. Jones, 511 E St., N. W., Washington, for quarters at Naval Radio Station.

Hospitals, Sanitariums, Etc.

Tex., San Antonio—State Bd. of Control, Austin, let contract at \$117,500 to Bailey, Burns & Fitzpatrick, Mercantile Bank Bldg., Dallas, for children's hospital and dormitory, State Tuberculosis Sanatorium; plumbing and heating, J. P. Bollinger Plumbing & Heating Co., San Angelo, at \$24,589; elect. work, Loyd-Peale-Dittmar Co., 1205 E. Houston St., \$5580; fireproof, rein. conc., 2 stories; Phelps & DeWees, Archts., Gunter Bldg.; W. E. Simpson & Co., Engrs., Milam Bldg., all San Antonio.

W. Va., Beckley—West Virginia Plumbing Co., Charleston, has plumbing contract for \$250,000 hospital for J. M. McCulloch and A. U. Tieche; roofing not let; Warne, Tucker, Silling & Hutchinson, Archts., Masonic Temple, Charleston; Garland Freeman, Gen. Supt. of Constr., Beckley. 1-2

Hotels and Apartments

Ark., Monticello—Jack Curry, Artesia, New Mexico, and Corliss Cury, Roswell, N. M., completed excavation for \$200,000 Hotel Ridgeway on E. Gaines Ave.; 5 stories, rein. conc., steel and brick, 60 rooms with private bath; designed and being constructed by B. W. Edwards, Monticello.

Miss., Kosciusko—Stanley Hotel remodel and enlarge hotel; work started; plans other improvements later.

Mo., Kansas City — Kansas City Terra Cotta & Faience Co., 19th & Manchester Sts., has contract for terra cotta for 20-story Phillips Hotel, 12th St. and Baltimore Ave., for Phillips Hotel Operating Co., C. E. Phillips, Pres., Victory Bldg.; John S. Sweet Hotel Co., Lessee, Topeka, Kans. 1-16

Mo., St. Louis—Anthony De Monte Temp. care Eugene Tomaselli, Contr., 4574 Cote Brillante, erect \$15,000, 2-story, brick 4-apartment; J. E. Tarling, Archt., 2806 N. Grand Blvd. 1-16

Mo., St. Louis—E. E. Marx, 105 N. Seventh St., soon start work on \$10,000, 2-story and basement, 25x41 ft. brick apartment, 5006 Parker St.; comp. roof, hardwood floors, hot air heat; T. L. Korte, Contr., 3722 Tennessee St. 1-16

Tex., Fort Worth—Mrs. J. B. Yale, 1062 W. Magnolia St., let contract to D. O. Marshall, care Earl T. Glasgow, Archt., First Natl. Bk. Bldg., for \$18,000, 2-story, 62x49-ft. brick veneer apartment, Bluebonnet Hills; tile roof, wood floors. 1-16

Tex., Harlingen—Managers' Investment Co. and Paul G. Silber & Co., Archts., Bedell Bldg., both San Antonio, owners of Damants Hotel, started work on \$18,000 improvements; refinish building in stucco, equip rooms with new fixtures. 1-16

Tex., Houston—H. B. Tennison, 427 Lovett Blvd., let contract to A. L. Etie, 1137 Alston St., for \$30,140, 2-story, 136x50 ft., conc. block 40-apartment, Hamilton and Franklin Sts.; Joseph Finger, Archt., Democratic Bldg. 1-9

Va., Norfolk—Logan Investment Corp., Logan McCloud, Contr. Pres.; A. O. Ferebee, Archt., V.-P. Arcade Bldg.; taking sub-bids on \$165,000, 9-story, 18-family cooperative apartment in West Ghent. 1-9

Miscellaneous

Fla., Apalachicola—H. H. Brown, Dothan, Ala., has contract for improvements and additions to building damaged by fire for Catholic Convent; brick, comp. roof. 1-16

Ga., Warm Springs—Warm Springs Foundation, Inc., L. A. Kibbe, Engr., soon start work on \$35,000 hospital building; Warm Springs Construction Co., Contr.; Eric Gugler & Henry Toombs, Asso. Archts., 101 Park Ave., New York. 11-21

Tenn., Chattanooga — Stokes Commercial Photo Co., 515 Cherry St., let contract to George Becking & Son, James Bldg., for \$15,000 studio, Chestnut and 9th Sts.; Spanish type, brick, stone trim, tile roof; Clarence T. Jones, Archt., James Bldg. 1-16

Tex., Fort Worth—Lake Worth Amusement Co., Bellefontaine, Ohio, George Smith, Local Mgr., soon start work on rebuilding Casino Park at Lake Worth previously destroyed by fire; \$250,000; stucco, fireproof; no general contract will be let, but contracts for various portions of work; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg. 9-26

Schools

Ala., Jacksonville—Service Co., Inc., 1522 13th Ave., Columbus, Ga., has contract for installing central heating system and power plant and plumbing and heating in classroom buildings and dormitory at Jacksonville Normal College for which A. J. Hunnycutt Co., Martin Bldg., Birmingham, has general contract; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham. 1-2

Ark., Little Rock—School Bd., H. T. Terry, Sec., let contract at \$26,519 to C. R. Sarty, 217 N. Beech St., for Philip Pfeifer School in East End; 1 story, brick and hollow tile, stone trim, 4 classrooms; Wm. Dill, Archt., Boyle Bldg. 10-24

Ky., Morehead — Following sub-contracts awarded on \$175,000 training school building at Eastern State Normal School and Teachers College: Millwork, Enoch Lumber & Manufacturing Co., S. State St., Jackson, Miss.; struc. steel, Sneed Architectural Iron Works, 10th & Hill Sts.; reln. steel, Walter L. Lacy & Co., 1032 S. 8th St.; cement, Kosmos Portland Cement Co., Stacks Bldg., all Louisville; roof and sheet metal, R. H. Vanderveide & Co., Dyersburg, Tenn.; Key Langston Construction Co., Gen. Contr., Murray; Joseph & Joseph, Archts.; Walter C. Wagner, Asso. Archt., both Breslin Bldg., Louisville. 1-9

Miss., Senatobia—Tate County Bd. of Education, W. C. Smith, Supt., let contract to M. O. Gann for Rosenwald colored school at Betty, to be known as Spring Field. 12-26

Mo., St. Louis—Washington University, Geo. R. Throop, Chancellor, and W. McKim

Marriott, Dean of School of Medicine, soon start work on \$150,000, 1-story, 50x100 ft., brick power house; comp. roof; Baumes-McDevitt Co., Engrs.-Bldrs., Ry. Exchange Bldg. 1-16

Okla., Chickasha—State Bd. of Affairs, Gus C. Wollard, Sec., Oklahoma City, let contract at \$8750 to C. J. Cannavan, Rush Springs, for home economics buildings at Oklahoma College for women. 1-2

Okla., Skiatook—School Bd., J. H. Taylor, Clk., let contract at \$17,112 to T. Dahlstrom Construction Co., 422½ S. Boston St., Tulsa, for 1-story, 107x66-ft. brick and stone school; cement and wood floors, asphalt roof; A. J. Love & Co., Archts., Atco Bldg. and Loan Bldg., Tulsa. 1-2

Tex., San Antonio—Bd. of Education, Dr. J. A. McIntosh, Pres., let contract at \$57,675 to Falbo & Guido for 13-room and assembly hall addition to J. T. Brackenridge Memorial School No. 21; John M. Marriott, Archt., Frost Natl. Bk. Bldg.; W. E. Simpson & Co., Engrs., Milam Bldg.; also let contract at \$89,891 to H. A. Miller, Builders Exchange Bldg., for 2-story and basement, 16-room and assembly hall, fireproof Wm. B. Travis School No. 13; heating, \$6600, Chalkley Bros., 1222 Navarro St.; plumbing, Jud & Ormond, 703 N. Flores St.; electrical, Loyd, Peale & Dittmar, 1205 Houston St.; L. Harrington Co., Archt.-Engr., Builders Exchange Bldg.; Phelps & Dewees, School Archts., Gunter Bldg. 1-16

Stores

Ala., Montgomery — A. Nachman's, A. B. Beringer, Pres., 102 Dexter Ave., reported, erecting \$200,000, 2-story, 50x100-ft., brick, steel and conc. annex on S. Perry St. to supplement present quarters on Dexter Ave.; Hugger Bros. Construction Co., Contr.; Frederick Ausfeld, Archt., both Shepherd Bldg. 1-16

Ark., Camden — L. F. Bellingrath, 1602 Cherry St., Pine Bluff, started work on reconstructing building recently damaged by fire. 1-16

D. C., Washington—Frank R. Jelleff, Inc. (women's wearing apparel), 1216 F St., N. W., erect 3-story addition to store; stone and brick, \$50,000; Samuel J. Prescott, Bldr., 814 13th St.; Appleton P. Clark, Jr., Archt., 816 14th St. 1-16

D. C., Washington—H. L. Rust Co., 1001 Fifteenth St., N. W., let contract to C. H. Tompkins Co., 1608 K St., N. W., for \$40,000, 2-story, brick store and office building, 1527 K St., N. W. 1-16

Fla., Ocala—J. Malever, 722 E. Ocklawaha Ave., started work on improvements to 2-story building, Magnolia and Ocklawaha Aves., for store and offices; basement and central heating plant will be installed; hot and cold water provided and cooled air ventilating system. 1-16

Fla., Sarasota — S. H. Kress & Co., 114 Fifth Ave., New York, soon start work on \$100,000, 3-story, brick and tile store on Main St.; steel frame, fireproof; G. E. MacKay, Company Archt.; owner builds by day labor, A. A. Griner, Supt. of Constr. 11-21

Ga., Atlanta—Seals & Copelan, care Oscar Davis, 91 11th St., let contract to Gilbert Beers, Bona Allen Bldg., for improvements and 2-store unit to building, 60-62 Pryor St., N. E.; \$25,000, 1-story and basement, 100x45 ft., brick, limestone or terra cotta trim, tar and gravel roof, metal skylights; Morgan, Dillon & Lewis, Archts., Grant Bldg. 12-25

La., New Orleans—F. J. Grefer, Metairie Bldg., erect store and residence on Prytania and Louisiana Ave.; Frank P. DuFrechou, 4227 Fontainebleau Drive, ready for sub-bids. 1-16

Md., Baltimore—F. W. Woolworth Co., New York, started work on interior improvements to store, 10 E. Baltimore St.; new salesroom in basement, alterations to first and second floors; plans and construction by Constr. Dept., Miners Bk. Bldg., Wilkes-Barre, Pa. 12-26

Miss., Jackson—W. G. Wetmore Construction Co., Lampton Bldg., has contract to remodel first floor of Chamber of Commerce Bldg. for United Shoe Stores, Shreveport, La.; improvements consist of steel frame throughout first floor, parquet, conc. and terrazzo floors, orn. plastering, plate and art glass, show windows, marble bulkheads, decorative painting, plumbing and wiring; H. N. Auston, Archt., Daniel Bldg. 12-26

Mo., Kansas City—James Hoover, of Hoover Construction Co., 1300 E. 18th St., purchased site at southwest cor. 47th St. and Forest Ave. and considering erecting building. 1-16

Tenn., Rockwood—I. N. Barnett and others started work on rebuilding Commerce Bldg. recently noted burned; Isaac Eaches in charge of work. 1-16

Tex., Corsicana—J. M. Dyer Goods Co. let contract to J. E. Metcalfe & Son Construction Co. for \$55,000, 3-story building, Main and Collin Sts. 1-16

Tex., Fort Worth—Echols Bros., 1010½ Main St., started work on 1-story, 30x80 ft., brick store, 4081 Dallas Pike, to be leased to Helpy Selfy; comp. roof, wood and conc. floors; owner, Archt.-Bldr. 1-16

Tex., Fort Worth—A. B. Wharton, Jr., 2229 Winton Terrace, W., erect \$30,000, brick, L-shape store, Pennsylvania and Fifth Sts.; comp. roof; Harry B. Friedman, Contr., First Natl. Bk. Bldg. 1-16

Tex., Stamford—Judge B. P. Davenport let contract to J. Dyer for \$10,000 improvements to Davenport Bldg., for store to be leased to J. C. Penney Co., 330 W. 34th St., New York; 2 stories, 50x140 ft. 1-16

Va., Richlands—R. R. Wall, North Tazewell, completed excavation for \$12,000, 3-story, 50x60-ft. brick store and apartment; conc. floors, comp. roof. See Want Section—Building Material and Equipment. 1-16

Theaters

Ark., Star City—Senator Arthur Johnson let contract to M. M. Redmond, 517 W. 24th St., Pine Bluff, for \$20,000, 1-story brick theater to be leased to Roland Seigle. 1-16

Miss., Okolona—Mattie Lee Buchanan let contract to Boozer Construction Co., Shannon, for \$20,000 theater on Main St.; work under supervision W. D. Beckell, Okolona. 1-16

Va., Lynchburg—Lynchburg Theatre Corp., Wm. P. Engle and associates, 2823 Highland Ave., Birmingham, Ala., let contract to C. W. Hancock & Son, Krise Bldg., Lynchburg, for \$400,000, 2-story and basement, rein. conc., steel, brick and stone theatre to be leased to Publix Theatres Corp., Paramount Bldg., New York; comp. roof, tile and terrazzo floors, interior marble trim; McDonald & Co., Engrs., Southeastern Trust Co. Bldg.; Robert S. Fiske, Consltg. Engr., Healey Bldg., both Atlanta, Ga. 1-2

Va., Richmond—Thomas Gresham, Pres., and Lee Paschall, V.-P., respectively, of Richmond Hotels, Inc., forming corporation to erect Patrick Henry Theatre, 25th and Marshall Sts., Church Hill; \$180,000, fireproof, seat 1100 people, contain 5 store rooms; Wise Granite & Construction Co., Contr., American Natl. Bank Bldg.; Lee, Smith & Van Dervoort, Archts.-Engrs., Sixth & Franklin Sts. 1-16

Warehouses

Tenn., Nashville — Wholesale Merchants' Warehouse Co. No. 14, Cummins Station, has permit for \$20,000 alterations, including remodeling front of building, erecting fireproof partitions, opening windows and general repairs; Boone Contracting Co., Contr., Independent Bldg. 1-16

Offers Water and Factory Site

M. B. Nicol, Alexandria, Va., who owns property in Halifax County, North Carolina, not far from Rocky Mount and other towns, advises that a dam across a large stream on the property impounds water for operating a grist mill, but that he is anxious to have the water power used and will give all land needed for a factory and free use of the water to any reliable company that will use it. 1-16

Radio Station Completed

West Palm Beach, Fla.—According to George W. Hansen, engineer in charge, the Mackay radio station near this city, a part of the Postal Telegraph system and one of the largest units in the Southern service of the company, is ready to operate. This station is expected to handle a large volume of business, especially of a marine nature and business from South America. 1-16

WANT SECTION

THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Machinery and Supplies

Ensilage Cutter.—M. E. Mitchell, La Feria, Tex.—Wants prices and data on ensilage cutter to operate in field.

Jaw Crusher.—D. C. Elphinstone, Inc. (Contractors' Equipment and Supplies), 120 S. Calvert St., Baltimore, Md.—Wants prices and data on jaw crusher with capacity of 60 to 70 tons of 2½-in. stone per hour.

Motor Bus Bodies and Accessories.—Stamper Chevrolet Co., Georgetown, S. C.—Wants data and catalogs on motor bus bodies and accessories.

Motor (Slip Ring).—Charles C. Steward Machine Co., 1236 Apalachee St., Birmingham, Ala.—Wants prices and data on 250-h. p., 3-phase, 60-cycle, 2200-volt slip ring motor; 720 r. p. m., complete with starting control, new or used, for immediate delivery.

Jackson Mfg. Co., W. N. Jackson, Meadowview, Va.—Wants prices and data on following:

- (1) Jointer and Mortiser
- (2) Lathe (Turning)
- (3) Planer (4-side), and Moulder
- (4) Resaw
- (5) Saw (Band)
- (6) Saw (Rip).

Sabine Petroleum Corp., Moss Bldg., Lake Charles, La., J. O. Davis, Pres.—Wants prices on following.

- (1) Drilling Equipment
- (2) Pumps
- (3) Tanks.

W. M. Smith (Mchy. Dealer), Birmingham, Ala.—Wants prices and data on following:

- (1) Drill (Radial)—4 to 6 ft.
- (2) Woodworking Machine—small, Universal Wood Worker.

Miscellaneous

Boxes (Wooden).—Garber Tool Co., Garber, Okla.—Wants prices and data from manufacturers of wooden boxes.

Puzzles and Games.—Burke H. Bridgers, P. O. Box 343, Wilmington, N. C.—Wants prices and data from manufacturers and distributors of puzzles and indoor games.

Sebrell Pen Co., 1472 Broadway, New York—Wants prices and data from manufacturers of following, used in making up desk sets:

- (1) Ink Bottles and Stoppers—2, 4 and 32 oz.
- (2) Swivels.

Wheels (Cast and Malleable).—W. L. Baugh, Woodmen, Colo.—Wants prices and data from manufacturers of cast and malleable wheels, 2 to 18-in. diam.

Lloyd T. Clark, Southern Pines, N. C.—Wants prices and data from manufacturers of following:

- (1) Brooms
- (2) Mops
- (3) Wax (Floor).

Page Milling Co., Luray, Va. — Wants prices and data on following:

- (1) Boiler Shells—1, 16 ft. long, ¾, for surface drain; 2, 10 ft. long, ¾, for surface drain
- (2) I-Beams—9 pieces, 15 in. 19½ ft. long; 6 pieces, 15 in., 12 ft. long
- (3) Tank (Oil)—15,000 gal. capacity
- (4) Tank (Truck)—500 gal. capacity
- (5) Tank and Tower (Water)—50,000 gal. capacity tank on 125 ft. tower.

Building Material and Equipment

John W. Cowper Co., Inc., State Planters Bk. Bldg., Richmond, Va., estimating on \$1,500,000 extension and remodeling of post office, courthouse and custom house, desires sub-bids and material prices by Feb. 17.

Joe Goldberg, Haryden St., Belzoni, Miss., wants plans and prices on following:

Show Window Fronts—for 2 stores, 23x 80 ft. and 15x80 ft.

Aviation Building Corp., 222 Neil P. Anderson Bldg., Fort Worth, Tex., wants prices on following for 16-story office bldg.:

- Elevators
- Flooring—terrazzo, tile
- Mail Chutes
- Marble
- Metal Doors
- Roofing (flat)—built-up
- Sprinklers
- Steel Sash and Trim
- Tile—gypsum, hollow.

Barrett Roofing Co., 206 Westhelmer Bldg., Houston, Tex.—Wants quotations on 25 to 25 carloads of:

- Asphalt Shingles
- Asbestos Shingles.

E. H. Eads & Co., Archts.-Engrs., Chickasha, Okla., want prices on following for \$125,000 hotel, Wills Point, Tex.:

- Electric Refrigerators
- Elevators
- Flooring—terrazzo, tile
- Incinerator
- Limestone
- Mail Chutes
- Marble
- Metal Doors
- Roofing (flat)—built-up, tile
- Steel Sash and Trim
- Tile—gypsum, hollow
- Wire Glass.

E. H. Eads & Co., Archts.-Engrs., Chickasha, Okla., want prices on following for \$160,000 hotel, Hobart, Okla.:

- Electric Refrigerators
- Elevators
- Flooring—terrazzo, tile
- Incinerator
- Limestone
- Mail Chutes
- Marble
- Metal Doors
- Roofing (flat)—built-up, tile
- Steel Sash and Trim
- Tile—gypsum, hollow
- Wire Glass
- Brass and Bronze Work

Joe F. Gier, Contr., 401 E. 54th St., Kansas City, Mo., wants prices on following for dwelling, Bartlesville, Okla.:

- Dumb Waiters
- Flooring—rubber tile.

L. A. Jackson, 429 N. St. Marys St., San Antonio, Tex., wants prices on following for number small frame dwellings:

- Plaster Board
- Roofing—asphalt shingle, built-up.

M. A. Ryan, Archt., 421 N. St. Mary's St., San Antonio, Tex., wants prices on following for \$15,000 apartment:

- Flooring—tile
- Incinerator
- Mail Boxes.

R. R. Wall, North Tazewell, Va., wants prices on following for \$12,000 store and apartment, Richlands, Va.:

- Flooring—hardwood, terrazzo, tile
- Metal Ceilings
- Metal Doors
- Plaster Board
- Roofing—built-up
- Steel Sash and Trim
- Ventilators
- Wire Glass.

Tilghman-Moyer Co., Archt.-Engr.-Contr., Allentown, Pa., wants prices on following for \$100,000 bank and office bldg., Rockville, Md.:

- Flooring—linoleum
- Limestone
- Marble
- Roofing (flat)—tile
- Tile—gypsum
- Vaults
- Brass and Bronze Work.

W. T. Smith, D. D. S., Walnut Ridge, Ark., wants prices on following for dental office:

- Flooring—hardwood
- Plaster Board.
- Roofing (flat)—built-up.

N. W. Overstreet, Archt., Standard Life Bldg., Jackson, Miss., wants prices on following for \$20,000 warehouse for Crane Co..

- Cast Stone
- Metal Doors
- Roofing—built-up
- Steel Sash and Trim.

Walter Jackson, Educational Director, First Baptist Church, Abilene, Tex., wants prices on following for \$140,000 bldg. nearing completion:

- Dumb Waiters
- Metal Fireproof Doors.

Kincannon & Lawson, Archts.-Engrs Woolworth Bldg., Tupelo, Miss., want prices on following for \$40,000 hotel, Okolona, Miss.:

- Cast Stone
- Electric Refrigerators
- Flooring—tile
- Metal Ceilings
- Metal Doors
- Steel Sash and Trim
- Tile—gypsum, hollow
- Vaults
- Ventilators
- Wire Glass.

Edw. E. Christopher, Archt., 1221 Louderman Bldg., St. Louis, Mo., wants prices on following for \$35,000 dwelling.

- Flooring—rubber tile
- Tile—interior

Wm. Ando, Alameda, Tex., wants prices on following for dwelling:

- Brass and Bronze Work.
- Flooring—tile
- Incinerator
- Rolling Partitions
- Roofing—asbestos shingle, slate
- Tile—interior

Bids Asked

Bridges.—State of Missouri. Bids for 21 bridges. See Construction News—Roads, Streets, Paving.

Bridges.—State of North Carolina. Bids for 4 bridges, etc. See Construction News—Roads, Streets, Paving.

Bridge.—Port Gibson, Miss. See Construction News—Bridges, Culverts, Viaducts.

Bridges, etc.—Washington, D. C. Bids for 13 bridges, underpasses, etc. See Construction News—Bridges, Culverts, Viaducts.

Bridge Substructure.—Relay, Md. See Construction News—Roads, Streets, Paving.

Bridge.—Warsaw, Va. See Construction News—Bridges, Culverts, Viaducts.

Culvert Pipe.—Bd. of Commrs., Orange County, Orlando, Fla.—Bids Feb. 3 for corrugated iron culvert pipe; 740 ft. 12-in. diam., 410 ft. 15-in. diam., 200 ft. 18-in. diam. and 122 ft. 24-in. diameter, all 14 gauge and in 20-ft. lengths, rodded at both ends and 2-ft. couplings.

Generator Sets.—Dept. of Commerce, Washington, D. C.—Bids Jan. 27 for 1 to 25 engine generator sets.

Levee.—U. S. Engr. Office, foot of Prytania St., New Orleans, La.—Bids Feb. 19 for about 3,120,000 cu. yd. levee work under straight contracts, and about 6,640,000 cu. yd. levee work under continuing contracts. See Construction News Columns—Miscellaneous Construction.

Lighting Fixtures.—City Dept. of Public Finances, Pur. Div., Room 24, City Hall, New Orleans, La.—Bids Feb. 11 for lighting fixtures in new criminal court and jail building, square bounded by Tulane Ave., Broad, White and Gravier Sts., according plans by Diboll & Owen, Ltd., Archt., 1501 Canal Bank Bldg.

Lighting Fixtures.—Supervising Archt., Treasury Dept., Washington, D. C.—Bids Jan. 29 for lighting fixtures for U. S. Internal Revenue Bldg., Washington.

Machine Shop and Equipment.—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Feb. 4 for following: Hollow chisel mortiser, engine lathe, motor driven boring, drilling and milling machine.

Machine Shop Equipment.—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Feb. 4 for following: Portable electric drills, carbon and high speed twist drills and woodworking machine.

Miscellaneous.—Panama Canal, Office of Gen. Pur. Officer, Washington, D. C.—Bids Feb. 4 for following, Sch. 2523:

Rail splice bars, cast-iron soil pipe, electric centrifugal pumps, electric motors, flash-light cases, sanitary fixtures, range boilers, shower heads, flush pipes, etc.

Office Furniture.—Q. M. Supply Office, Ft. Sam Houston, Tex.—Bids Feb. 3 for 200 folding tables, typewriter stands, steel waste baskets, etc.

Paving.—Long Beach, Miss. See Construction News—Roads, Streets, Paving.

Plumbing Supplies.—Q. M. Marine Corps, Washington, D. C.—Bids Jan. 27 for lavatory plugs, levers, steam pressure gauges, extension bars, etc.

Print Shop Equipment.—Comms. Dist. of Columbia, Washington, D. C.—Bids Feb. 11 for print shop equipment for D. C. penal institutions, including 2 job printing presses, proof press, stitcher, imposing table, etc.

Road Machinery.—Contracting Officer, Q. M. Corps, Ft. Bragg, N. C.—Bids Jan. 28 for 3 road drags and motor driven road grader.

Roads.—State of Louisiana. Bids for 9 roads. See Construction News — Roads Streets, Paving.

Roads.—State of Missouri. Bids for 46 roads. See Construction News — Roads, Streets, Paving.

Roads.—State of North Carolina. Bids for 12 roads. See Construction News—Roads, Streets, Paving.

Road.—New Orleans, La. See Construction News—Roads, Streets, Paving.

Roofing Sheets.—Panama Canal, Office of Gen. Pur. Officer, Washington, D. C.—Bids Jan. 27 for galv. pure iron and copper-bearing steel roofing sheets. Sch. 2524.

Screws, etc.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Jan. 25 for screws, etc., delivery, Washington, D. C.

Steel Piling.—U. S. Engr. Office, Nashville, Tenn.—Bids Jan. 30 for 7420 ft. steel sheet piling.

Steel Tables.—Commr. Dist. of Columbia, Washington, D. C.—Bids Feb. 7 for 100 steel tables with seats for D. C. Reformatory.

Strand.—U. S. Engr. Office, Kansas City, Mo.—Bids Jan. 27 for 30,000 ft. wire strand, 16,000 lb. of galv. wire.

Street.—Birmingham, Ala. See Construction News—Roads, Streets, Paving.

Street.—Jena, La. See Construction News—Roads, Streets, Paving.

Street.—St. Louis, Mo. See Construction News—Roads, Streets, Paving.

Tanks.—Div. of Supplies, Dept. of Commerce, Washington, D. C.—Bids Jan. 27 for 50 ft. assembly spare water tanks.

Timbers.—U. S. Engr. Office, Kansas City, Mo.—Bids Jan. 27 for approx. 310,000 ft. b. m. yellow pine or Douglas fir timbers.

New Truscon Manager Birmingham.

The Truscon Steel Company, Youngstown, Ohio, has appointed W. R. England as manager of the Birmingham, Ala., district, with offices at 513 North Twenty-first street. This office has the distribution facilities of its own local warehouse.

\$2,500,000 Motor and Control Order.

The Board of Transportation of the City of New York recently placed an order with the Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., for 610 traction motors and 300 controls. In point of size and importance, this is an outstanding contract for equipment of this character and will involve about \$2,500,000.

Trade Literature

Flexible Couplings.—Bulletin No. 37 illustrating and describing Morse flexible couplings is being distributed by the Morse Chain Company, Ithaca, N. Y., manufacturers of silent chain drives, speed reducers and couplings. The principle of the Morse flexible coupling design is explained, together with methods of installing and employing them; complete data is presented for the proper way to select couplings, their ratings, dimensions and prices. Space is also devoted to speed reducers and the Morse power transmission service.

Heavy Duty Planer Motors.—Bulletin No. 205, illustrating and describing type T heavy duty Reliance planer motors for reversing service, has been issued by the Reliance Electric & Engineering Company, Cleveland, Ohio. The bulletin tells what control is required and how the motor operates, citing a number of advantages of direct motor drive on planers.

Railroad and Plant Equipment.—A folder listing a variety of equipment for railways, factories and industrial plants is being distributed by Zelnicker in St. Louis, Mo. This company specializes in railroad and contractors' equipment, rails and accessories, and in steel sheet piling, locomotive, wrecking and overhead cranes, oil engines, tanks, pipe, structural steel and other products.

Drawing Instruments.—The F. Weber Company, Philadelphia, is distributing a catalog illustrating and describing mathematical and surveying instruments made of the extremely light metal, Duraluminum, which is said to be a wide departure from the usual metals from which drawing instruments are manufactured.

Business Man's Trust.—The Equitable Trust Company, Baltimore, is distributing a recently published book, "The Business Men's Trust," explaining in detail the advantages of an investment plan, operating under restrictions described as sufficiently conservative to assure sensible protection and steady income.

Excavating Equipment.—Excavating buckets of various types are illustrated and briefly described in Bucket Pick-Ups, a publication of the Hayward Company, New York, manufacturers of electric motor, dragline, clamshell and orange peel buckets. Special buckets are also built to suit various grab bucket situations.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Ironton Brick Representatives.

The Ironton Fire Brick Company, Ironton, Ohio, has appointed as their representatives at Chattanooga, Tenn., Stegall & Company, who will carry a complete line of Kentucky quality fire brick in stock for local demand and take orders for carload quantities.

Sales Manager Appointed.

C. C. Osterhout has been appointed manager of sales of the Rome Division of the Wrought Iron Company of America, with headquarters at Lebanon, Pa. He will have exclusive charge of sales of Rome Superior staybolt and Rome Perfection engine bolt irons.

\$4,250,000 Steel Contract.

Said to be the largest contract ever awarded for steel to be used in building construction, an order has been placed by Starrett Brothers, Inc., New York, with Post & McCord, New York, for 53,000 tons of fabricated steel for use in the new Empire State Building to be erected on the site of the old Waldorf-Astoria Hotel. Delivery will begin April 1 and continue for a period of five months, the order involving about \$4,250,000.

Representatives of Falk Corporation.

An arrangement has been made by the Falk Corporation, Milwaukee, Wis., with Root, Neal & Company, Buffalo, N. Y., whereby the latter will sell Falk products in that section, including herringbone parallel shaft speed reducers, right angle reducers and flexible couplings. It is also announced that the Youngstown Steel Sales, Inc., Youngstown, Ohio, will sell Falk products through their territory. In line with the Falk policy full sales cooperation will be given the new agencies.

New Allis-Chalmers Office.

The Allis-Chalmers Manufacturing Company, Milwaukee, Wis., announces establishment of a sales office at 633-634 Tennessee Electric Power Building, Chattanooga, with D. S. Kerr as representative in charge and A. I. Richardson as sales engineer. It will operate as a branch of the Atlanta district office under direction of Berrien Moore, district manager, and will enable the company more effectively to serve its customers in Eastern and Central Tennessee.

Offers Stock to Employees.

The International Paper and Power Company, Boston, Mass., is making an offering of its 7 per cent preferred stock to employees and subsidiary and affiliated companies at \$80 a share. This is the fifth annual stock offering by the company.

Advertising Manager Appointed.

McEverlast, Inc., Los Angeles, Cal., has appointed O. A. Steller as manager of the advertising department, with offices in Los Angeles. Mr. Steller recently served as editor of "Concrete" after a connection with the Portland Cement Association.

Announces Golden Jubilee.

Organized in 1880 by W. J. Buhrmann, the Buhrmann-Pharr Hardware Company, Texarkana, Ark.-Tex., announces its golden jubilee during 1930. F. E. Pharr, who was admitted to membership in the firm a number of years ago, is active president and general manager.

Atkins Advertising Manager.

Succeeding the late T. A. Carroll, Marvel W. Dallas has been appointed advertising manager by E. C. Atkins & Company, Inc., Indianapolis, manufacturers of saws, saw tools, machine knives and allied products.

Rust Resisting Sheets.—The American Sheet and Tin Plate Company, Pittsburgh, Pa., a subsidiary of the United States Steel Corporation, has recently issued a booklet, "The Testimony of Science and Service," presenting information on exposure tests conducted by the American Society for Testing Materials. These were corrosion tests on both copper and non-copper iron and steel sheets, results indicating that copper-bearing steels were superior to other materials tested. Keystone copper steel sheets, among other products, are made by the American Sheet and Tin Plate Company.

Bay City Shovels.—Two catalogs issued by the Bay City Shovels, Inc., Bay City, Mich., illustrate and describe two important products of the company. Catalog T-6, of 24 pages, features the ten ton, $\frac{3}{4}$ revolving, $\frac{3}{4}$ -yard capacity, convertible shovel, trench hoe, dragline and backfiller, with full crawler mounting and powered by a McCormick-Deering industrial tractor; catalog K-2, of 20 pages, features the Bay City model K full revolving, half yard shovel, clamshell, skimmer, trench hoe and dragline, having a weight of 15 tons and full revolving swings. Catalogs may be obtained from the company.

Dump Truck Service.—The Commercial Shearing & Stamping Co., Youngstown, Ohio, is distributing a booklet illustrating Commercial 3-way dumping bodies and hoists, and described as possessing important advantages of flexibility, durability, power and profitable operation.

Pressed Metals.—The Gender, Paeschke & Frey Co., Milwaukee, Wis., contract manufacturers of pressed metal parts, is distributing a booklet "In Harmony With Modern Progress." It explains by text and illustration opportunities presented to forward-looking manufacturers in the use of pressed metals.

To Finance Standardization Work

A large group of industrial organizations is underwriting finances of the American Standards Association, New York, for a period of three years, to permit expenditure of \$150,000 annually for the association's work. A committee consisting of James A. Farrell, president of the United States Steel Corporation; Gerard Swope, president of the General Electric Company; George B. Cortelyou, president of the Consolidated Gas Company of New York, and F. A. Merrick, president of the Westinghouse Electric and Manufacturing Company, handled details of the underwriting.

Because of the rapid growth of industrial standardization in this country, the underwriting was planned to permit immediate expansion of the work of providing authoritative national standards while permanent financing is under way.

Companies joining in the underwriting include the Aluminum Company of America, American Telephone & Telegraph Company, Bethlehem Steel Company, Consolidated Gas Company of New York, Detroit Edison Company, General Electric Company, General Motors Corporation, Gulf Oil Corporation of Pennsylvania, Public Service Corporation of New Jersey, Standard Oil Company of New Jersey, U. S. Steel Corporation, Westinghouse Electric and Manufacturing Company, and the Youngstown Sheet and Tube Company. Up to date the Association, of which William J. Serrill is president, has adopted 160 national standards and 190 others are being formulated. National standard safety codes are an important feature of the Association's work, among which are the national electric safety code, the code for mechanical power transmission and several codes for mine safety. The American Home Economics Association recently affiliated with the American Standards Association.

Furniture Chain Stores Merge

Charlotte, N. C.—Plans have been made for the merger of the Furniture Association, Inc., of this city, with the Century Furniture Association, of Oil City, Pa., into a single \$20,000,000 company, according to Hugh A. Murrill, president of

the new organization. The consolidated companies operate a chain of 43 stores from Manchester, N. H., to Shreveport, La. The new company will be known as the Furniture Associates, Inc., and will maintain its headquarters in Charlotte.

Promotes Cooperation in Foundry Industry

John S. Schofield, foundryman of Macon, Ga., recently elected president of the Southern Metal Trades Association, and long active and influential in promotion of cooperation in the foundry industry, is completing a set of trade practice agreements soon to be published for the gray iron industry. In a recent pamphlet addressed to the metal trades of the South, Mr. Schofield offered a strong argument for cooperation through association activity.

\$582,000 Bid on School Building

New Orleans, La.—Low bid to erect the proposed Alcee Fortier high school building here has been submitted by J. V. & R. T. Burkes, Inc., local contractors, at \$582,686. The structure will be 4 stories, 325 by 275 feet, of reinforced concrete, steel and brick, to contain 50 classrooms and a number of laboratories with other facilities. E. A. Christy is the supervising architect of the Orleans Parish School Board, A. J. Tete, secretary.

Railroad Construction Report in Error

Discussing a recent report that the Maverick County Irrigation District No. 1, Eagle Pass, Tex., had sold a bond issue of \$6,600,000 for irrigating from 60,000 to 100,000 acres of land at Eagle Pass and to develop hydro electric power in connection therewith, with an announcement that contingent upon the irrigation project the Missouri Pacific Railroad Company would build a line from Carrizo Springs into the lower end of the irrigation district and up the Rio Grande to Eagle Pass, H. R. Safford, of the Missouri Pacific Lines, Houston, Tex., advises that no announcement has been made by the Missouri Pacific Lines that such a railroad would be built.

Laredo Section of Texas Enters Citrus Fruit Market

The Laredo section of Texas is making its first serious bid this winter as a producer and shipper of citrus fruits. According to the Dallas News, the generally accepted idea that citrus culture in Texas is confined only to the lower Rio Grande Valley may have to be modified when 110,000 orange and grapefruit trees on 1450 irrigated acres in Webb County come into commercial bearing.

During the second week in December the first car of Laredo grown Marsh seedless grapefruit was shipped over the Missouri Pacific Lines and purchased for the dining car service of that system by President L. W. Baldwin. It is estimated that some 10 cars of grapefruit, oranges and tangerines will be shipped this season.

While the Laredo section has long been famous for the Texas Bermuda onion, although this crop is now grown in many counties of Southwest Texas, the development of the citrus industry has been steady.

Orders 85,000 Tons of Rails

Orders have been placed by the Baltimore & Ohio Railroad Company for 85,000 tons of steel rails, divided as follows: 22,000 tons, Bethlehem Steel Corporation, Bethlehem, Pa.; 52,000 tons, Carnegie Steel Company, Pittsburgh, Pa.; 6000 tons, Illinois Steel Company, Chicago, and 5000 tons, Inland Steel Company, also of Chicago.

Concrete Reinforcing Steel Institute

The sixth annual meeting of the Concrete Reinforcing Steel Institute, Chicago, Ill., will be held at the Bon-Air Vanderbilt Hotel, Augusta, Ga., beginning Monday, March 31, and ending Wednesday evening, April 2.

Revenue anticipation notes in the amount of \$1,000,000 have been sold by the city of Knoxville, Tenn., to the National City Company, New York, at par and a nominal premium.

Comprehensive Code of Ethics of National Builders' Supply Association

Southern Builders' Supply Officers Elected for Ensuing Year

The holding of trade practice conferences by business organizations seems to be the order of the day, but if the National Builders' Supply Association members live up to the 21 points in their comprehensive Code of Ethics which has been adopted, further pledges as to business conduct would be superfluous. The Code is as follows:

"1. It is recognized that any individual has the right to contract or refuse to contract with any person whomsoever, and that such right should not be interfered with, and nothing herein contained is intended as an interference therewith.

"2. It is the duty of every individual engaged in the building supply industry to cooperate with manufacturers from whom he buys, with his competitors, employes, trade press, contractors, architects, engineers, and the building industry in general in an endeavor to extend and improve his business, to aid constructively in establishing and maintaining proper trade relations and sound competitive conditions, to refrain from all acts, practices, and customs that are injurious to the business, and to deal in and encourage the use of recognized proper materials and workmanship.

"3. It shall be the duty to encourage and assist in trade association activities engaged in by this association. If no local association exists, vigorous and continuing efforts should be exerted to establish one, and when established to see that such local association affiliates with the state and national associations. If no local association can be established, individuals should affiliate as such, with their state association, and thus make entry into the national body, and where no local or state organization exists, dealers should become members of this association.

"4. Cordial and friendly relations shall be established and maintained with others in the same line of business. It should be kept in mind that collective effort and cooperation in this industry is most essential for individual success, and further that desirable relations and confidence can be initiated and maintained only by honest and honorable dealings among competitors.

"5. It shall be improper to speak ill of a fellow member. If commendations cannot be conscientiously expressed, be silent. Trade discussions should boost the industry and those engaged therein.

"6. It shall be considered a duty, in so far as possible, to instruct and enlighten a fellow member where it is evident knowledge is lacking in his business experience or other qualifications. By the interchange of ideas, methods, experi-

ences, and information, the industry will increase in efficiency.

"7. Frank discussions should be encouraged, as these tend to make known the conditions of the industry and provide means to discourage unethical and dishonest buyers.

"8. Members should, in making estimates, be thorough, taking care that no items of material, labor, and expense have been overlooked. To this end known costs derived from experience should be tabulated and kept. Efficiency in estimating and in the office should be maintained. A profit in proportion to the character of the undertaking should be added to the cost of materials, labor, overhead, and all other expenses, and this price should be maintained without deviation or unfair discrimination. A service is performed and that service should yield a fair profit.

"9. We commend to the members of the association careful consideration of methods of financing the sale of building materials and that study be given to the end that workable, scientific, economic methods may be adopted.

"10. The practice of some dealers in making drop shipments of material for delivery in the territory of a dealer in another market, as well as the practice generally of interfering with dealers in other markets, is condemned as an unfair method of doing business.

"11. Sales by manufacturers or dealers in large or small quantities within or without their regular markets at lower prices or with better terms than usually apply in those markets tend to demoralize the market where such sales are made and disrupt normal competitive conditions, and the making of such sales constitutes an unfair practice.

"12. Any discrimination in prices between purchasers of the same class, and where credit and delivering conditions are similar, is an unfair trade practice which tends to lessen competition and to create monopoly.

"13. The payment of commissions, refunds, rebates, credits, whether in the form of money or otherwise, or extending to some purchasers special service or privileges not extended to all others of a like class under like terms and conditions, is an unfair trade practice.

"14. Cash discounts facilitate the liquidation of obligations incurred in purchasing materials, and such discounts should be adequate for that purpose. The terms of cash discounts should be strictly observed and dealers entitled to such discounts within a specified period should make payments within that period and should not seek, and manufacturers should not grant, the discount after the period has expired. Dealers should in the discounts on sales by them avoid discrimination and require strict adherence to all the terms thereof.

"15. A qualified dealer of building materials, as defined in section one of Article Two of the by-laws of this association, comprehends those engaged in the business of selling such materials, who

carry a well-selected and ample stock of merchandise, who buy in suitable quantities, warehouse such reserve stock as is economical and convenient, resell in proper units and as economically as possible, observe the Code of Ethics of this Association, assume the credit risk and such other obligations as are incident to the purchase, transportation, warehousing, and distribution of building material.

"16. Support is due to those manufacturers who follow the practice of striving to have none other than reputable and responsible dealers handle their commodities. Only through such dealers can the finished work be permanent, and a credit to the industry.

"17. A qualified manufacturer of building material is one who manufactures his product and sells to qualified dealers who conform to the practices herein adopted as ethical, and who in the selection of the channel through which sales shall be made adopts a uniform and public policy and who observes the principle of making sales without undue preference or unjust discrimination.

"18. Wherever feasible, uniform sale contracts should be made applicable between manufacturers and dealers and between dealers and contractors, and such contracts should in all instances be observed by the parties thereto.

"19. It is an unfair practice for salesmen to induce buyers to give orders for the products or goods of their employers at prices less than fair, with the understanding that they are to endeavor to induce the sellers to concede the cut price. Selling for less than a reasonable price is an unfair act or practice.

"20. It is unethical and unfair for a manufacturer to sell his product both to a dealer and to a consumer, and every manufacturer should elect between these two agencies, confining himself to one or the other and openly stating his policy with reference thereto.

"21. The industry hereby records its approval of the practice of handling disputes in a fair and reasonable manner coupled with a spirit of moderation and good will, and every effort should be made by the parties themselves to arrive at an agreement. If unable to do so, arbitration under some one of the prevailing codes should be agreed upon, as it is at all times preferable to litigation, with its costly handicaps and delays."

Officials elected at the Eleventh Annual Convention of the Southern Builders' Supply Association held in Memphis, include: President, Frank D. Horton, Standard Building Material Co., Birmingham; Vice-President, Robert Hibbler, Hibbler Barnes Co., Chattanooga; Treasurer, John J. Voelkel, Sr., J. J. Clark Co., New Orleans; Recording Secretary, Thomas J. Wiggins, Atlas Rock Co., Miami, and Secretary-Manager, R. L. McChesney, 816 Howard Avenue, New Orleans.

The Board of Directors include: Alabama, W. W. Milling, Mobile; Florida, Thomas J. Wiggins, Miami; Georgia, George W. West, Atlanta; Louisiana, Peter Judlin, New Orleans; Mississippi, J. R. Perry, Vicksburg; Tennessee, R. D. Conger, Jackson; Texas, Tovell Marston, Houston.

FINANCIAL NEWS

Bond Issues Proposed

Ala., Gadsden—School—City votes latter part of Jan. on \$125,000 bonds. 12-26.

Ala., Mobile—Road—Mobile County Bd. of Revenue and Road Commrs., E. C. Doody, Clk., receives bids Feb. 10 for \$1,200,000 of \$5,000,000 bonds previously voted.

Fla., Miami—City, Welton A. Snow, Mgr., receives bids Jan. 27 for \$828,000 refunding bonds. 12-19.

Fla., Palm Beach—Road—Town, L. Trevette Lockwood, Mgr., defeated \$150,000 bond issue for improving Ocean Blvd.; lately noted bids Jan. 15. 11-21

Fla., South Jacksonville, Jacksonville — City Council, Taylor J. Harris, Mayor, considering \$22,000 bond issue to purchase Southside athletic field; Marcel Mazeau, City Engr.

Fla., Winter Park—Refunding—City Comm. plans receiving bids for \$82,000 bonds.

Ga., Macon—City, Glen Toole, Mayor, calls election for Feb. 18 on \$2,000,000 bonds: \$150,000, incinerator and garbage collection equipment; \$600,000, sanitary sewers; \$750,000, storm sewers; \$300,000, paving; \$100,000, widening streets; \$100,000, parks and improvements. 12-19

Louisiana—State Bd. of Liquidation, Baton Rouge, plans issuing \$6,000,000 hard surfaced highway bonds; H. B. Connor, State Treas.

La., Arcadia—Blenville Parish School Bd., E. H. Fisher, Sec.-Treas., receives bids Feb. 18 for \$100,000, not to exceed 6% School Dist. No. 5 bonds.

La., Bogalusa—School—City, K. I. Bean, Clk., may receive bids for \$100,000 bonds. 10-10

La., Columbia — Caldwell Parish Police Jury receives bids Feb. 11 for \$145,000, not to exceed 6% road bonds; \$100,000, Road Improvement Dist. No. 2; \$45,000, Road Improvement Dist. No. 1.

La., Crowley — Drainage—Acadia Parish plans \$75,000 bond election.

La., Loranger—Tangipahoa Parish School Bd., Amite, considering \$20,000 bond election for school at Loranger

La., Many—Sabine Parish School Bd., G. C. Reeves, Sec., rejected bids for \$45,000, Zwolle School Dist. No. 1 bonds. 12-12

Miss., Blue Mountain—Water—City, George T. Callicutt, Mayor, considering \$15,000 bond election.

Miss., Greenwood—City Hall—City votes Feb. 3 on \$85,000 bonds.

Miss., Raymond—Courthouse, Jail—Hinds County Bd. of Suprvs., W. E. Downing, Clk., Jackson, receives bids Feb. 3 for \$200,000 Series B bonds.

Miss., West Point—Refunding—Clay County Bd. of Suprvs., L. J. Howard, Clk., will sell Feb. 4, \$40,000 road and bridge bonds; lately noted will sell, Feb. 3. 1-16

Mo., Columbia—City votes soon on bonds for jail and several fire stations.

Miss., Laurel—Jones County Bd. of Suprvs., plans \$70,000 bond issue for new annex to Laurel courthouse and repair and alter Ellis County court building.

Mo., Silkeston—City votes soon on municipal gas plant bonds.

Miss., Senatobia—Strayhorn Creek Drainage Dist., Tate County, Joe Price, Commr., will issue \$20,000 bonds for digging canal.

Mo., St. Joseph—A. L. Loving, Sec. and Bus. Mgr. of School Dist. of St. Joseph, receives bids Feb. 1 for \$500,000 4% bonds.

N. C., Sanford—Lee County Commrs., considering \$62,000 bond issue for county hospital.

Okla., Guthrie—School—City voted \$70,000 bonds. 1-9.

S. C., Loris—Loris or Simpson Creek High School Dist. No. 2, C. D. Prince, Clk., receives bids Jan. 31 for \$44,000, 5 to 6% bonds; information from G. Lloyd Ford, Atty., Conway.

S. C., Springfield—Water—Town Council, H. J. Bailey, Clk.-Treas., receives bids Jan. 27 for \$20,000, 6% bonds.

Tenn., Athens—McMinn County Court authorized issuance of \$20,000 short term school notes.

Tenn., Cookeville—Putnam County defeated \$200,000 school bond issue.

Tenn., Memphis—City, Mayor Overton, receives bids, probably, Feb. 9 on \$2,000,000 improvement and school bonds; receives bids

Feb. 18 for \$1,750,000 school and hospital obligations.

Tenn., Memphis—City, D. C. Miller, Clk., receives bids Jan. 28 for \$1,250,000, 4½ to 5½% revenue notes; Overton Watkins, Mayor.

Tenn., Ripley—Road—Lauderdale County Hard Roads Comm., W. C. Potter, Chmn., receives bids Jan. 28 for \$250,000, \$1000 denom., not to exceed 6% bonds. 1-16

Tenn., Somerville—School—Fayette County votes Feb. 3 on \$100,000 bonds. 1-16

Tenn., Sparta—Sewer—City votes Mar. 15 on bonds.

Tex., Amarillo—School—City voted \$550,000 bonds. 1-9

Tex., Bay City—City, reported, voted \$175,000 bonds for school.

Tex., Brownsville—City Comm. considering election on \$100,000 bonds for filtration plant; \$50,000 to \$60,000 for incinerator; bonds for paving, storm sewers, etc.

Tex., Childress—City will issue \$100,000 warrants to build pumping plant and pipe line to Lake Childress pumps.

Tex., Crockett—Road—Houston County plans \$1,500,000 bond election. 1-16

Tex., Crystal City — School—City, votes Feb. 1, tentative date, on \$80,000 to \$90,000 bonds. 1-16

Tex., Del Rio—Del Rio Independent School Dist. votes Feb. 1 on \$185,000, bonds; Sam H. Walker, Pres. School Bd. 12-12

Tex., Georgetown—Airport—City Council called election for Feb. 4 on bonds.

Tex., Groesbeck—Road—Limestone County Commrs. Court, Johnson Wakefield, County Judge, called election for Mar. 1 on \$1,000,000 bonds. 1-9

Tex., Houston—Road—Harris County Commrs., R. H. Spencer, Commr., probably submit bond issue in March or April; Norman Atkinson, County Judge.

Tex., Houston—City, W. E. Monteith, Mayor, receives bids Mar. 15 for \$2,170,000 bonds: \$528,000, 4½%, street; \$80,000, 4½%, sewer; \$56,000, 4½%, general improvement; \$44,000, 4½%, paving; \$440,000, 4½%, special improvement; \$60,000, paving; \$750,000, special improvement; \$132,000, boulevard; \$80,000, bridge; bidders to name rate of interest; H. L. Shaw, City Engr. 1-16

Tex., Liberty—Road—Liberty County, C. R. Wilson, Judge, plans receiving bids soon for \$500,000, 5% of \$2,500,000 bonds recently voted. 11-21

Tex., Marlin — Road — Falls County voted \$446,000 bonds. 12-12

Tex., Morse—Morse Independent School Dist. may vote in Feb. on bonds. 11-21

Tex., Whitesboro—Lee Plant—City defeated \$15,000 bond issue. 12-19

Va., Clintwood—Road—Dickenson County, Ervington Dist., considering \$100,000 bond issue.

Va., Portsmouth—City Council authorized issuance of \$225,000, 6% short term notes in anticipation of 1930 revenue.

Va., Richmond — City, Bd. of Aldermen, considering bond issue for school, and \$400,000 bond issue for sewers; R. Keith Compton, Dir. of Public Works.

Va., Virginia—Beach—Town, J. E. Woodhouse, Jr., Clk., plans selling soon, \$75,000, 5½% bonds; \$70,000, general improvement; \$5,000 water.

Bond Issues Sold

Ala., Birmingham—City, C. E. Armstrong, Comptroller, sold \$310,000 public improvement bonds to Steiner Brothers, Birmingham. 12-26.

La., Baton Rouge—Airport—East Baton Rouge Parish Police Jury, E. A. Woods, Sec., sold \$103,000, \$1,000 denom., not to exceed 6% certificates of indebtedness to Assel, Goetz & Moerlein, Inc., Cincinnati. 12-26

La., Homer—Claiborne Parish School Bd. sold \$100,000, 5½% bonds to Caldwell & Co., Nashville, Tenn., without premium.

Miss., Holly Springs—Street—City, Mayor and Bd. of Aldermen, C. B. Smith, Clk., sold \$45,000 \$500 denom. bonds to First Security Co., Memphis. 12-19

Miss., Macon—Bridge—Noxubee County Bd. of Suprvs., V. V. Adams, Clk., sold \$10,000, 5% coupon bonds to Boatmen's National Co., St. Louis, Mo., \$455 premium. 12-19

Tenn., Chattanooga — Hamilton County, Will Cummings, County Judge, sold \$1,656,000 4½% bonds to syndicate composed of Harris Trust & Savings Bank and Continental Illinois Co., Inc., both Chicago, Hamilton National Bank, and Caldwell & Co., Nashville. 1-16

Tenn., Knoxville — City, John C. Borden, Dir. of Finance, sold \$1,000,000 revenue anticipation notes to National City Co., New York, at par and premium. 1-2

Building and Loan Associations

S. C., Walhalla—Walhalla Building & Loan Assn., capital \$50,000, chartered; J. E. Bouknight, Pres.; W. B. Bell, Sec.-Treas.

New Financial Corporations

La., Gibsland—Gibsland Investment Corp., capital \$25,000, chartered; Edwin Winlock, Chmn., Pres.; L. T. Baker, Sec.

La., New Orleans — Automotive Finance Corp., capital \$50,000, chartered; Oscar E. Haring, Pres., 3507 Louisiana Parkway.

Mo., Princeton—Princeton State Bank, capital \$30,000, chartered; Fred Beland, John W. Boyd, H. J. Alley.

N. C., Asheville—Heywood Investments, Inc., capital \$50,000, chartered; Fred L. Sale, Stratford Road, Lakeview Park.

N. C., Greensboro—North Carolina Corp., capital \$250,000, formed; Oscar W. Burnett, Pres.; affiliate of North Carolina Bank & Trust Co., to handle securities, investment, mortgage loan and insurance departments of bank. 12-12

Tenn., Chattanooga — Hamilton National Associates, Inc., Hamilton National Bank Bldg., capital \$20,000, applied for charter; T. R. Preston, Newell Sanders, Theodore H. Lasley. 1-16

Tenn., Kenton—Kenton Banking Co., chartered; C. O. Ramer, Pres.; G. C. Hollomon, Cashier; formed by merger of First National Bank, T. P. Finch, Pres., and People's Bank, T. L. Marsh, Pres., both Kenton.

Tex., Amarillo — Ben Hur Investment Corp., capital \$50,000, chartered; William R. Pumphrey, 1604 Hughes St.

Tex., Harlingen—Rio Grande Finance Corp. chartered; R. L. Newton, J. C. Nelson, M. Cook.

Tex., Honey Grove—First National Bank in Honey Grove capital \$50,000, chartered; W. O. Connor, Pres.; J. B. Hembree, Cashier.

Tex., Houston—E. J. Jarrard Investment Co., capital \$30,000, chartered; Ed. J. Jarrard, San Jacinto Tr. Bldg.

Tex., Richardson—Citizens Investment Co., capital \$15,000, chartered; Sherwood Spotts, C. B. Chick, Sam P. Harben.

American Southern Trust Co., A. B. Banks, Pres., and Exchange National Bank, J. M. Davis, Pres., both Little Rock, Ark., plan merging as American Exchange Trust Co. with \$1,000,000 capital; stockholders will act on proposed merger Feb. 15.

Bank of Ensley, R. E. Chadwick, Pres., Ensley, Ala., and its branch, Bank of Wylam, reported, will reopen with about \$1,000,000 additional assets.

Bd. of Directors of Fourth and First National Bank, and Nashville Trust Co., J. E. Caldwell, Pres. of both, Nashville, Tenn., plans merging as Fourth and First Banks, Inc., with \$4,000,000, capital, and \$4,000,000 surplus; James E. Caldwell, Pres.; W. P. Smith, Cashier.

Bedford Trust & Savings Bank, J. J. Scott, Pres., and People's National Bank, L. R. Gills, Pres., both Bedford, Va., merged as People's National Bank, with \$2,000,000 total resources.

Branch Banking & Trust Co., H. D. Bateman, Pres., Wilson, N. C., plans opening branch bank at Fayetteville, N. C.

Farmers State Bank, J. M. Jensen, Pres., and First National Bank, R. R. Waldrop, Pres., both Clifton, Tex., consolidated as Farmers State Bank, with J. M. Jensen, Pres.; Joe Wise, Cashier.

First National Bank, T. N. Brown, Pres., Maryville, Tenn., increased capital, \$100,000 to \$150,000.

Greater Louisville Savings & Building Assn.,

FINANCIAL NEWS

Gustav Flexner, Sec. and Gen. Mgr., 417 West Market St., Louisville, Ky., plans increasing capital \$16,000,000 to \$18,000,000.

J. E. Newlin & Co., Ltd., investment brokers, 225 Broadway, New York City, opened branch office at 207 Independent Life Bldg., Nashville, Tenn., with James C. Armistead, Nashville, as Middle Tennessee representative.

Mutual Savings & Loan Assn., Oklahoma City, Okla., increased capital, \$5,000,000 to \$10,000,000.

Republic National Co., W. O. Connor, Pres., Dallas, Tex., acquired First National Bank of Honey Grove, Tex.

Southwest Virginia Building & Loan Assn., Inc., A. C. Hopwood, Pres., Roanoke, Va., plans increasing capital, \$2,000,000 to \$3,000,000.

Springfield Branch of Nashville Trust Co., of Nashville, Tenn., J. E. Caldwell, Pres., acquired interests of Robertson County Bank

& Trust Co., Charles E. Bell, Sr., Pres., Springfield; Charles E. Bell, Sr., manager of merged bank.

Stockholders of First National Bank, J. N. Edens, Pres., and of Corsicana National Bank, A. G. Elliott, Pres., all Corsicana, Tex., considering merging.

Wallins National Bank, W. K. Howard, Pres., Wallins Creek Ky., merged with Harlan National Bank, P. V. Cole, Pres., Harlan, Ky.

Seaboard Pays \$5,000,000

Norfolk, Va.—Bank loans amounting to \$3,000,000 and a \$2,000,000 10-year note to the Director-General of Railroads, due March 1, 1930, have been paid by the Seaboard Air Line Railway Company from a \$20,000,000 fund received through the sale of new common stock at \$12 a share, according to L. R. Powell, Jr., president. These payments are the result of a reorganization of the company's capital structure effected last year, through which the credit of the road is said to have been more firmly established and the possibilities of the property enhanced. A new extension from the main line at Bellwood, 8 miles from Richmond to Hopewell, a distance of 15 miles, built at a cost of \$1,000,000, has just been opened.

Loan Associations Combine

Chattanooga, Tenn.—The International Building and Loan Association announces the absorption of the Tennessee Mutual Building and Loan Association, the former thus becoming a consolidation of three companies, having absorbed the Volunteer Building and Loan Association more than a year ago. The International will issue \$2,500,000 in stock at \$50 a share and will redeem memberships in both the Tennessee and old International associations out of a fund to receive one-eighth of all earnings and to be administered by a trustee. George W. Wallace is president of the association.

Railroad Contract Report Erroneous

The Chesapeake & Ohio Railway Company, C. W. Johns, chief engineer, Richmond, Va., recently reported as having awarded contract to build a 28-mile branch of the Levisa railroad between Millard, Ky., and the Virginia-Kentucky border, advises that contract has not been awarded and that bids have not been invited.

\$787,000 Maryland Loan Offered

Bids will be received until February 12 by John M. Dennis, treasurer of the State of Maryland, at his office in Annapolis, for the purchase of \$787,000 4½ per cent certificates of indebtedness

known as the General Construction Loan of 1929. The certificates will be in denominations of \$1000 each and will be issued with interest coupons attached.

Offers \$30,000,000 Debentures

The Associated Gas and Electric Company, New York, operating in the South and other sections through subsidiaries, is offering a new issue of \$30,000,000 convertible 5 per cent gold debentures due in 1950. The issue is being handled by the following New York bankers: Harris, Forbes & Company, Lee Higginson & Company, Continental Illinois Company, Inc., E. H. Rollins & Sons, Halsey Stuart & Company, Inc., Brown Brothers & Company, Field, Gloré & Company, Kidder, Peabody & Company, Edward B. Smith & Company and John Nickerson & Company, Inc.

Louisiana Reports Progress in Citrus Development

Louisiana's orange crop, in the lower-coast section on the west bank of the Mississippi about 75 miles below New Orleans, will amount to 200,000 boxes this season, valued at \$600,000. This was formerly a famous orange section; the trees of a former day were killed by an unusual spell of cold weather and by disease. In recent years, the industry has been coming back. The Missouri Pacific Railway has encouraged production as far as it could. There has been a large planting, and new orchards are constantly coming into bearing.

The citrus development in the parishes on the north shore of Lake Pontchartrain, St. Tammany, Washington and Tangipahoa, has also made important progress. Car-lot shipments of Satsumas moved from there for the first time this past season.

New Baltimore Color Printing Plant

The McClure Newspaper Syndicate, New York, is establishing a color printing plant at 318 Guilford avenue, Baltimore, equipment being supplied by the Goss Printing Press Company, Chicago, Ill., and the Hanson-Van Winkle-Munzing Company, Matawan, N. J.

Stock Increase to \$2,000,000

The capital stock of the Safe Deposit & Trust Company, Baltimore, will be increased from 12,000 shares of a par value of \$1,200,000 to 20,000 shares of a par value of \$2,000,000, according to recent action of the stockholders who have approved the plan. Stockholders will be given the privilege of subscribing to the new stock at its par value of \$100 a share in the proportion of one share for each three shares held. Directors of the company, in proposing the capital increase, explained that it was deemed proper to provide additional security in the form of capital stock in view of the increasing number and value of trust estates the company is handling.

Coast Guard Station Proposed

West Palm Beach, Fla.—It is understood that the Secretary of the Treasury has approved petitions for the construction of a coast guard life saving station near the mouth of the port of Palm Beach and that Representative Ruth Bryan Owen has introduced a bill in Congress authorizing construction. Such a station would be of great advantage, it is declared, because of the growing importance of the port and the fact that it is largely used by fishing fleets.

Rockwood Alabama Stone for \$850,000 Courthouse

Calling attention to an illustrated item in the MANUFACTURERS RECORD of January 16, on the \$850,000 Hinds County courthouse to be erected at Jackson, Miss., in which it was stated that the walls would be of brick with Indiana limestone trim, the Rockwood Alabama Stone Co., Russellville, Ala., advises that Rockwood Alabama stone will be used for the walls of the entire building. The structure, as previously announced, will be 195 by 89 feet, with a 5-story main section and two 4-story wings. Claude H. Lindley, Jackson, is the architect; Gardner & Howe, Memphis, Tenn., structural engineers; G. A. Peerman, Birmingham, Ala., mechanical engineer; Angle-Blackford Co., Greensboro, N. C., general contractor, and the Pauly Jail Building Co., St. Louis, Mo., contractor for jail equipment.

Corporate Financing Arranged

Mergers and Reorganizations Effected

With connections seeking extensive outlets in constructive financing in the South, this announcement of facilities now available to Southern business houses embraces a most cordial invitation to investigate the solutions offered in response to capital needs. Capital furnished for both new and old enterprises.

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LIVESTOCK GROWING IN SOUTH

President of Southern Livestock Association Declares This Section Natural Home of Industry

Raleigh, N. C.—Concluding a session of the Southern Livestock Association here, which was featured by addresses by Dean I. O. Schaub, of State College; William A. Graham, commissioner of agriculture, and Dr. Bradford Knapp, president of Alabama Polytechnic Institute, Auburn, Homer Hancock, former commissioner of agriculture of Tennessee and president of the association, declared that the mild winters, long growing seasons and adaptability of the soil to forage and feed crops, make Southern farms the natural home of the livestock industry and able to compete with any section of the country. "It is amazing," said Mr. Hancock, "that we continue attempting to compete with more favored sections in the production of small grain and cotton when we can secure greater and more lasting returns with less work and more satisfaction from a well-defined livestock program. The standard of living on our Southern farms is entirely too low to guarantee a happy, satisfied citizenship engaged in our basic industry. Increased net returns for money, labor

and thought invested in farming operations will bring the desired results. A well planned livestock program covering a period of years will most likely cause this dream to come true."

Robert H. Ruffner, head of the animal husbandry department of State College, made a short address and Mr. Graham welcomed the livestock workers to the state and voiced the belief that farmers should grow livestock to meet their own food needs with a surplus for sale, but that a livestock program did not necessarily mean giving up growing important staple crops. Dr. Knapp pointed out the difficulties of livestock growing in the Northern states as compared with Southern States, declaring that the open season in the South, winter cover crops, less need for housing and the great diversity of crops make conditions ideal for livestock growing.

Rural School Plan Service

The departments of education of ten states—Alabama, Arkansas, Florida, Georgia, Mississippi, North Carolina, Oklahoma, Tennessee, Texas and Virginia, are using for the erection of rural schools "Standard Plans and Specifications," in the preparation of which the National Lumber Manufacturers Association played an important part.

Bids on \$5,000,000 Capitol Unit

Charleston, W. Va.—Bids will be opened March 5 by the Capitol Building Commission, Bonner H. Hill, secretary, to erect the proposed \$5,000,000 main unit of the new West Virginia state capitol. The building will be 536 by 106 feet, 72 feet high, with a dome 266 feet, rotunda 8 feet in diameter and two 1-story wings 60 by 94 feet. It will be of stone construction and will contain about 6,000,000 cubic feet. Cass Gilbert, New York, is the architect.

Possibilities of South's Slash Pine for Paper Making

Gum timber in ample quantity is available in Georgia and the Southeast generally for manufacture of better grades of paper products by the sulphite process, and there are available ample supplies of long leaf pine for manufacture of kraft papers, and slash pine, which has such a low resin content that authorities indicate its adaptability for the higher grades of paper products, according to Dr. Poole Maynard, industrial geologist of the Atlanta, Birmingham and Coast Railroad. Dr. Maynard recently investigated the opportunities for manufacture of pulp and paper products from Georgia woods.



PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close February 14, 1930.

War Department, Office Constructing Quartermaster, Fort Bragg, N. C. Sealed proposals in triplicate will be received until 10:00 A. M. February 14, 1930, and then publicly opened, for the construction and completion of sixteen (16) Non-commissioned Officers' quarters at Fort Bragg, North Carolina. \$25.00 deposit certified check, payable to Treasurer of United States, required for drawings, etc. Further information on request.

Bids close January 30, 1930.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C. January 3, 1930.—SEALED PROPOSALS will be opened in this office at 3 P. M. January 30, 1930, for furnishing all labor and material required for new brass water piping in the U. S. Post Office at Rome, Ga. Drawings and specifications may be obtained from the custodian at the U. S. Post Office at Rome, Ga., or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids close February 5, 1930.

\$350,000 Farm Development Bonds

Lakeland, Fla.

Proposals will be received until February 5, 1930, on \$350,000.00 6%, 20-year, First Mortgage Farm Development Bonds. Address North Polk Farms Co., Box 711, Lakeland, Florida.

Bids close February 19, 1930.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C. January 10, 1930.—SEALED BIDS will be opened in this office at 3 P. M. February 19, 1930, for extension and remodeling (except elevators and elevator hatchway entrances) the U. S. P. O., Ct. H. and Cu. H. at Richmond, Va. Drawings and specifications, not exceeding six sets, may be obtained at this office, in the discretion of the Supervising Architect, by any satisfactory general contractor, and provided a deposit is made of \$50.00 for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

Bids close January 28, 1930.

Bridge

Richmond, Va.

Sealed bids will be received at the office of the Virginia Department of Highways, State Office Building, Capitol Square, Richmond, Virginia, until 10 A. M. Tuesday, January 28, 1930, for the construction of: Rt. 37, Proj. F526B, Richmond County, Bridge over Totuskey Creek near Totuskey Wharf, 1—35' and 6—27' 6" Steel Beam Spans, 4920 Lin. Ft. Creosoted Piles, 3520 Lin. Ft. Untreated Piles, 8000 F.B.M. Creosoted Timber, Cu. Yds. A. Conc., 412 Lbs. Reinf. Steel, 41,390 Lbs. Structural Steel, 85,750. Contractors will be shown over the work Res. Engr. office, Warsaw, 10.00 A. M. January 23rd. Details obtainable upon request.

Bids close February 4, 1930.

Bridge Substructure

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building bridge substructure as follows:
Baltimore County, Contract No. B-121—Substructure required for the proposed bridge over the tracks of the Baltimore & Ohio Railroad Company along the line of Main Avenue, at Relay, will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Streets, Baltimore, Maryland, until 12 M. on the 4th day of February, 1930, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 17th day of January, 1930.

G. CLINTON UHL, Chairman.

L. H. STEUART, Secretary.